

Avian Analysis of LCTA Special Use Plot Data: West Point Military Academy

by Eric R. Schreiber and Alison Hill

The Land Condition Trend Analysis (LCTA) program is the Army's standard for land inventory and monitoring, using standardized methods of natural resources data collection, analyses, and reporting designed to meet multiple goals and objectives. This report presents the results of a study done for West Point in conjunction with the Army Environmental Center's (AEC) Conservation Assistance Program

(CAP). Four years of bird data were analyzed for LCTA special use plots during 1992, and 1995 through 1997. The information and techniques presented in this report are intended to provide land managers the ability to more effectively use the LCTA special use plot bird data being collected on their installation.

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REPORT DOCUMENTATION PAGE

Form Approved OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.

| AGENCY USE ONLY (Leave Blank) | 2. REPORT DATE August 1998 | 3. REPORT TYPE AND DATE Final | S COVERED | | | |
|---|---|--|---|--------------------|--|--|
| 4. TITLE AND SUBTITLE Avian Analysis of LCTA Spec | 5. FUNDING NUMBERS MIPR W81EWF80489293 CAP 0697996-003 | | | | | |
| 6. AUTHOR(S) Eric R. Schreiber and Alison F | Till | | | | | |
| | | | | | | |
| 9. SPONSORING / MONITORING AGENCY Natural Resources Branch IT ATTN: DHPW U.S. Military Academy West Point, NY 10996 | 10. SPONSORING / MONITORING AGENCY REPORT NUMBER | | | | | |
| 11. SUPPLEMENTARY NOTES Copies are available from the l | National Technical Information Se | ervice, 5285 Port Royal | Road, Springfield, VA 22161. | | | |
| 12a. DISTRIBUTION / AVAILABILITY STAT | | . , | 12b. DISTRIBUTION CODE | | | |
| standardized methods of natur- objectives. This report present Center's (AEC) Conservation a during 1992, and 1995 through | alysis (LCTA) program is the Armal resources data collection, analysis the results of a study done for WAssistance Program (CAP). Four your 1997. The information and technoffectively use the LCTA special u | ses, and reporting design set Point in conjunction years of bird data were suiques presented in this | ned to meet multiple goals and with the Army Environmenta analyzed for LCTA special use report are intended to provide | d al e plots | | |
| | | | | | | |
| 14. SUBJECT TERMS LCTA Birds Natural resource management | West Point Militar ecological surveys | y Academy | 15. NUMBER O 112 16. PRICE COD | | | |
| 17. SECURITY CLASSIFICATION OF REPORT Unclassified | 18. SECURITY CLASSIFICATION OF THIS PAGE Unclassified | 19. SECURITY CLASSIFICA OF ABSTRACT Unclassifie | ABSTRACT | | | |

Foreword

This study was conducted for the U.S. Military Academy (USMA), West Point Environmental Office, Natural Resources Branch, under Military Interdepartmental Purchase Request (MIPR) No. W81EWF80489293 and the Conservation Assistance Program (CAP) tracking number 0697996-003. The technical monitor was Ms. Catherine Coleman, DHPW.

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Distribution

1 Introduction

Background

The U.S. Army is currently responsible for managing 5 million hectares (12.4 million acres) on approximately 120 military installations throughout the United States. More than 50 military installations and training areas in the United States and Germany have implemented the Land Condition Trend Analysis (LCTA) program (Tazik et al. 1992).

The U.S. Army Construction Engineering Research Laboratories (USACERL) developed LCTA as a means to inventory and monitor natural resources on military installations. The LCTA program uses standardized methods of nature resource data collection, analysis, and reporting designed to meet the need for natural resources management and land stewardship (Tazik et al. 1992).

LCTA surveys use two types of plots: core and special use. Core plots are located in an objective, stratified manner to ensure that the data are representative of the installation (Warren et al. 1990). These plots are used to evaluate the condition of natural resources on the installation and serve as a basis for the national inventory. Special use plots are used for installation-specific issues that are not sufficiently covered by core plots. These plots can be allocated in any manner deemed appropriate by the installation, and are used to supplement baseline monitoring (Price et al. 1995).

The Environmental Office at West Point Military Academy began collecting LCTA special use plot data in 1992. However, only two plots (101 and 102) were sampled during that year. In 1995, nine additional special plots were allocated and Plot 102 was eliminated. Plots 101, and 103 through 111 have been sampled annually since 1995. West Point is unique in that one individual, Mr. Tom Miller, collected all the bird data from the LCTA core and special use plots.

Ms. Catherine Coleman of the Environmental Office at West Point contacted Mr. Steve Getlein, the Conservation Assistance Program (CAP) manager, at the U.S. Army Environmental Center, and submitted CAP requests for assistance with analyzing their LCTA bird data. West Point had particular interest in obtaining

general trend information on the stability of the local bird populations. The first CAP request analyzed bird data from LCTA core plots and is summarized in Schreiber and Hill (1998). The second request analyzed the bird data from the LCTA special use plots and is summarized in this report.

Objective

The objective of this report was to produce summary tables of West Point's bird data from their LCTA special use plots.

Approach

Once the project was assigned on 5 March 1998, the USACERL and West Point investigators held a conference call to discuss the work and come to agreement on the desired product: a report containing digital summary tables of the LCTA special use plot bird data. The following tasks were completed in response to West Point's CAP request:

- (1) Verified and fixed all errors within the 1992, and 1995 1997 bird data.
- (2) Entered the revised bird data into Quest for analysis.
- (3) Analyzed West Point's special use plot bird data.
- (4) Provided West Point specific guild information regarding their special use plot bird species.
- (5) Prepared a Final report for West Point.
- (6) Sent West Point electronic files of the revised data and output and a hard copy of the final report.

Scope

This report summarizes West Point's bird data collected by using documented LCTA data collection techniques. It provides summaries of LCTA special use plot data from 1992, and 1995 through 1997.

Mode of Technology Transfer

West Point can use the compiled summary tables to support land management decisionmaking and to support the required documentation. This documentation includes, but is not limited to annual installation reports, the Integrated Natural Resource Management Plan (INRMP), and National Environmental Policy Act (NEPA) documents. All electronic files of the raw and compiled data will be transferred to West Point.

2 Terminology

The variables used in the summary tables are defined below.

Ave FO birds — The average number of flyovers for each LCTA plot.

Ave site birds — The average number of birds recorded within the confines of the LCTA plot boundary.

Ave tot birds — The average number of birds recorded for each LCTA plot; includes both flyover and site species.

Distinct species — The term distinct species is synonymous with unique species. A total of 83 distinct onsite species were identified on West Point LCTA special use plots.

FO birds — Flyovers are birds that were observed outside the designated LCTA plot boundary.

FO plots — The number of LCTA plots in which flyover species were recorded outside the plot boundary or flying overhead.

Occurrence — Occurrence refers to each time a species was recorded on an LCTA plot. There was a total of 1,184 individual species occurrences, including flyovers, for all West Point LCTA special use plots.

Period — Time of day in which the survey was conducted.

AM - morning

PM - evening

Plotid — The plot number associated with each West Point LCTA wildlife plot.

 $\textbf{Site birds} \ -- \ \text{The total number of birds identified within the LCTA plot boundary}.$

Site plots — The total number of LCTA plots on which species were recorded.

Total birds — The total number of birds recorded on West Point LCTA plots; includes both flyovers and site species.

Transect — Portion of the line transect in which species were recorded.

Line Out - Starting at the 0 m of the transect and walking to the 100 m end. End Point - The end of the 100-m transect.

Line In - Walking from the end point back to the 0 m point.

Vertid — LCTA wildlife codes were established in 1991 by researchers from USACERL (Kowalski and Whitworth 1991) and based on the scientific names from the 1987 *Checklist of Vertebrates* (Banks, McDiarmid, and Gardner 1987). Each code consists of the first two letters of the genus and the first two letters of the specific epithet. If duplicate codes exist, ascending numbers, starting with 1, follow the four-letter code.

The following variables were used in the tables to describe guild information for the 83 distinct West Point bird species identified on LCTA special use plots.

Food type — The primary food eaten by West Point birds.

- Aquatic Inverts Includes aquatic insects, crayfish, shrimp, snails, bivalves, etc.
- Fruit Includes fruit and berries.
- Greens May include leafy parts of both aquatic and terrestrial plants, and bulbs.
- Insects May include insects, spiders, mites, land snails, slugs, worms, millipedes, sowbugs, etc.
- Seeds Includes grains, sunflower seeds, conifer seeds, etc.
- Small Mammals Any animal of the class Mammalia. Includes shrews, ground squirrels, rabbits, but most often rodents.

General Habitat — General habitat is a category that is often quite difficult to quantify. Many species frequent several habitat types and are not confined to just one. Therefore, habitat classifications within the database should be viewed cautiously.

- Forest An extensive concentration of trees and related vegetation.
 Includes sparsely wooded areas, densely wooded areas, and pinon-juniper associations.
- Forest Edge The transitional area where a forest ends and another distinct habitat begins.
- Freshwater Includes areas such as lakes, ponds, rivers, and streams.

- Grassland An area of land on which the natural dominant plant forms are grasses and forbs. Areas with scattered trees and/or snags are included in this community type.
- Riparian An area located along the bank of a natural watercourse (as a river) or sometimes of a lake or tidewater.
- Shoreline The strip of land where a body of water and the shore meet.
- Shrubland An area of land on which the natural dominant plant forms are shrubs (a low, usually several-stemmed woody plant).
- Swamp/Marsh A wet, spongy land, saturated and sometimes partially or intermittently covered with water. Also includes tracts of soft, wet land, typically characterized by grasses and cattails.

Mated status — The categories used to describe the mated status of West Point bird species.

- · Female only
- Flock
- · Non-singing male
- · Not recorded
- Pair (adult male and female)
- Singing male
- Unknown sex

Neo status — Neotropical migrant status of West Point species based on the following classification system (Partners in Flight 1991).

- A "True" neotropical migrants; breed in North America and winter south of the United States.
- B Generally breed and winter in North America, but some populations winter south of the United States.
- R Resident species (i.e., non-neotropical migrant species).

Nest location — The location where West Point bird species nest.

- Ground Includes nests placed among the roots, or in niches among the
 roots of fallen trees, among tules and reeds (in marshes), among grasses,
 on bare rock, or simply scraped in the dirt or sand.
- Man-made Structure Includes nests placed among any man-made structure (bridge, barn, etc.).
- Reed Nest built within and attached to reeds.
- Shrub Includes nests placed within any multi-stemmed woody plant that
 does not have a distinct single trunk extending several feet between the
 ground and the lowest branching point.

- Snag Includes nests placed in a standing dead tree. Also used for species that use cavities in dead and live trees more/less indiscriminately.
- Woody Lower Canopy Includes nests placed in the lower canopy of deciduous or coniferous trees.
- Woody Upper Canopy Includes nests placed in the upper canopy of deciduous or coniferous trees.

Nest type — The type of nest that is constructed by West Point bird species.

- Cavity Eggs placed in a cavity that has been excavated (woodpeckers) or in a natural cavity found in a dead or dying tree. Sometimes a cup or other structure is built within.
- Cup A sometimes bulky, but always deep depression, with a hemispherical inside and a rim height several times the diameter of the eggs.
- Oven Oven-shaped (roofed or arched) nest on the ground.
- Parasitic No nest is constructed. Eggs are deposited in the nest of another species.
- Pendant An elongate saclike nest suspended from a branch.
- Platform A structure in a tree, on a cliff, or providing a dry place above marshy ground or water, usually big enough for the bird to land on, with or without a distinct depression to hold the eggs. Typical of many raptors and wetland birds.
- Saucer A shallow cup with the height of the rim not more than twice the diameter of the eggs. Also a flattened nest of pliable vegetation as used by some wetland birds.
- Scrape A simple depression usually with a rim sufficient to prevent eggs from rolling away. The scrape nest of many duck species are almost bowlshaped. Occasionally with lining added.

Substrate — The location where West Point bird species feed.

- Air Foraging done in the air. Includes foraging techniques such as: Aerial Foraging, Aerial Pursuit, Hawker, Hover & Pick, Hover Gleaner, and Piracy.
- Bark Foraging done primarily on the bark of trees. Includes: Bark Gleaner.
- Foliage Foraging done primarily on foliage. Includes: Foliage Browser and Foliage Gleaner.
- Ground Foraging done primarily on the ground. Includes: Digging, Ground Gleaner, High Patrol, Hover & Pounce, Low Patrol, Piracy, Scavenger, and Swooper.
- Water Foraging done primarily on or in the water. Includes: Ambusher,
 Dabbler, High Dives, Prober, Skimmer, Surface Dips, and Surface Dives.

Technique — The technique used by West Point bird species to obtain their food.

- Aerial Pursuit Chasing or catching birds in midair, stooping (dropping on flying birds from above, killing them in midair with a blow from the talons), or snatching them from their perches.
- Bark Gleaner Gleaning from tree trunks and branches. Includes excavating and drilling into bark.
- Dabbler Floating on the surface in shallow water, pivoting headfirst downward while raising hind-quarters above the water to reach submerged plants or animals on or near the substrate.
- Foliage Browser Browsing tender shoots, twigs, and leaves of trees and shrubs for food.
- Foliage Gleaner Gleaning from foliage and occasionally from branches.
 Take invertebrates and/or fruit from the vegetation, not from the surface of the ground.
- Ground Gleaner Picking up items from the surface of soil, turf, sand, etc.
- Hawker Sallies from perch on short flights to capture flying insects.
- High Patrol Soaring at high altitudes in search of carrion or prey.
- Hover Gleaner Taking nectar, insects, or berries from plants above the ground while hovering.
- Low Patrol Seeking prey in a low searching flight.
- Scavenger Feeding on carrion, refuse, or material left unconsumed by other organisms.
- Surface Dives Floating and then diving under water using feet and/or wings in search of prey.
- Swooper Snatching prey from the ground in talons after a gliding descent from perch with wings spread.

3 Methodologies

The bird data used in this analysis was collected from West Point LCTA special use plots during the 1992, and 1995 through 1997 field seasons by Mr. Tom Miller, research specialist. Survey methodologies followed similar LCTA protocols (Tazik et al. 1992).

Bird Survey Methodologies

LCTA special use plots can be allocated in any manner deemed appropriate by the installation, but generally follow the modified point-count technique, as used when sampling core plots. Each plot is surveyed once in the morning and once in the evening by slowly walking the 100-m transect in 6 minutes and recording all birds seen and heard within 100 m of the plot (Line Out). Upon reaching the end of the transect, the observer stops and records all birds seen and heard for 8 minutes within 100 m of the end (End Point). The observer then walks another 6 minutes back to the starting point, again recording all birds seen and heard within 100 m of the plot (Line In). Species observed outside the plot limits and flyover species are also recorded on the standard LCTA Bird Survey Data Form.

Surveys are typically conducted on relatively calm, rainless days, within a 2- to 4-week period that corresponds to the breeding season. Morning surveys are conducted between ½ hour before and 4 hours after sunrise; evening surveys are conducted 4 hours before sunset. All birds observed, with common name, LCTA species code, and total number for each species are recorded within each segment of the survey, along with corresponding codes for mated status.

Data Entry

The 1992, and 1995 through 1997 special use plot bird data was entered into SQLBase format from standard LCTA paper data forms.

Error Checking

The paper and electronic data files were checked for a number of common errors, which were corrected in the database. LCTA species codes were developed for all wildlife species, and should be used when collecting any LCTA-related data. However, errors may still arise. The various types of errors that may be encountered include: (1) entering an invalid species code (i.e., the species code does not correspond to a valid species, MYMU vs. HYMU), (2) entering the wrong species code for a particular species (i.e., the species code pertains to an entirely different species, VIOL vs. PIOL), (3) omitting the numerical value at the end of certain species codes (e.g., COVI vs. COVII), or (4) entering an incorrect numerical value (e.g., SPPA1 vs. SPPA2).

Some errors can be fixed easily (e.g., correcting for invalid species codes); however, other errors involve cross-referencing back to the original data sheets and checking the species code against the common name. The species code must not only be correct, but legible, because the individual entering the data typically relies solely on the species code. Only when error-checking procedures are done, will the individual cross-reference the code to the common name, and correct for these inconsistencies.

4 West Point Special Use Plot Summary Data

In 1992, only two special use plots (plots 101 and 102) were allocated. However, from 1995 through 1997, a total of ten special use plots were sampled annually. These include plots: 101, 103, 104, 105, 106, 107, 108, 109, 110, and 111. Plot 102 was not sampled after 1992.

Annotated LCTA Bird Species Checklist

Appendix A/Table A lists, by common name, the 83 distinct bird species recorded on West Point LCTA special use plots. The table includes the scientific name, LCTA code, and the total number of individuals recorded for each year. The Canada Goose had the most occurrences (63). However, the Canada Goose was only recorded from two plots during 1997, and should probably have been recorded as flyovers. The American Robin was the second most frequently observed species recorded on West Point special use plots, with 61 occurrences (5.4%), followed by the Scarlet Tanager with 5.2% of the total occurrences, and the Red-eyed Vireo with 4.8% of the total occurrences.

Nine species were identified on special use plots that were not recorded from core plot data (Schreiber and Hill 1998). These species include: Bobolink (6 occurrences), European Starling (5 occurrences), Great Blue Heron (2 occurrences), Fish Crow (1 occurrence), Alder Flycatcher (1 occurrence), Eastern Meadowlark (1 occurrence), Great Horned Owl (1 occurrence), Tennessee Warbler (1 occurrence), and the American Woodcock (1 occurrence).

LCTA Plots Associated With Each Bird Species

Appendix B/Table B lists all LCTA special use plots in which a particular species was recorded, and the total number of individuals found on each plot. Several species were identified on all LCTA special use plots. These species include: Brownheaded Cowbird, Great-crested Flycatcher, and the Red-eyed Vireo. Additional species occurring on 10 of the 11 LCTA special use plots include Norther Flicker,

Blue Jay, Eastern Wood Pewee, American Robin, Scarlet Tanager, Wood Thrush, Rufous-sided Towhee, and the Black-and-white Warbler.

Bird Species Associated With Each LCTA Plot

Appendix C/Table C lists all avian species recorded for each of the LCTA special use plots, and the total number of individuals for each species within that plot. The number of species recorded on individual plots ranged between 20 species (plot 102) and 47 species (plot 101), with the mean being 31 species per plot. However, plot 102 was sampled only in 1992, and was not sampled during 1995 through 1997.

Guild Associations

Appendix D/Table D contains generic guild information for the 83 West Point bird species that were identified on special use plots, with common name, scientific name, LCTA code, neotropical migrant status, nest location, nest type, food type, food substrate, feeding technique, and general habitat. This information was derived from a comprehensive list containing guild data for all bird species found within the United States (Schreiber and Whitworth 1998).

Installation Information

Table E1 in Appendix E lists the general information for West Point special use plot bird data. All (100%) of the LCTA special use plots had species recorded within the plot boundary, while 63.6% had flyover species. In 1996, 1 Warbler and 1 Waterthrush were recorded, but not identified to the species level. Therefore, the number of site birds, and the number of occurrences will be slightly higher in 1996 than that reported in Tables A, B, C, and D, where these two individuals were excluded from analysis.

Table E2 is a similar division of the information presented in Table E1, except it presents the information by year. A total of 83 distinct species (1,137 occurrences) were recorded as site species. These include: 33 species (104 occurrences) in 1992, 63 species (288 occurrences) in 1995, 52 species (54 - 2 unknowns, 281 occurrences) in 1996, and 67 species (464 occurrences) in 1997.

Table E3 displays the installation information by year and period (i.e., time of day). The importance of dividing the information by period is to gain insight on which

sampling time is best. Sampling in the morning clearly provides a much higher yield when looking at the average number of both total and site birds, within all years. However, generally speaking, time of day did not seem overly important when identifying flyover species.

Table E4 lists the installation information by transect. The data indicate that of the three transect segments (Line Out, End Point, and Line In), more species are being identified during the Line Out.

Table E5 lists the installation information by mated status. The singing male was the most frequently recorded category.

Installation Information by Vegetation Type

Vegetation types (Appendix F, Table F1) were derived from the New York Natural Heritage (NYNH) Communities map (Reschke 1990) and LCTA Plot Location map, created by West Point personnel. Information describing the ecological communities or West Point is contained in Schreiber and Hill (1998).

West Point's LCTA special use plots represent five vegetative categories. These categories include: Appalachian Oak-Hickory (5 plots), Burn Barren (1 plot), Hemlock-Hardwood Swamp (1 plot), Hemlock-Northern Hardwood Forest (1 plot), and Successional Old Field (3 plots) (Table F2). Most vegetative categories had very small sample sizes; subsequent analyses should be viewed with caution.

Table F3 lists the vegetation types for each year, with the total number of birds observed within each category.

Table F4 divides the vegetation types for each year, by period, with the total number of birds associated with each. With few exceptions, more birds were recorded in morning site counts than evening counts.

Table F5 divides the vegetation types by transect, with the total number of birds associated with each. With few exceptions, more birds were recorded during the Line Out than during the End Point or Line In, as evidenced in the average number of site birds.

Table F6 lists the vegetation types by mated status for each year, with the total number of birds associated with each. The singing male was the most frequently recorded category.

Table F7 separates the West Point vegetation types by species recorded within each category. The number of species identified within each vegetative category is provided below. Small sample sizes should be viewed with caution.

Burn Barren - 25 species (1 plot)

Hemlock-Hardwood Swamp - 36 species (1 plot)

Hemlock-Northern Hardwood Forest- 38 species (1 plot)

Oak-Hickory - 59 species (5 plots)

Successional Old Field - 64 species (3 plots)

Guild Summaries

Information pertaining to the guild summary tables in Appendix G is based on a report by Schreiber and Whitworth (1998) that documents an LCTA database update that provides selected ecological attributes for 676 bird species occurring within the continental United States.

Table G1 lists the West Point bird species by neotropical status: Class A, Class B, and Resident species. A large percentage of birds that occur on West Point special use plots were identified as neotropical migrants. The annual percentages of neotropical migrant (Class A and Class B) species and species occurrences, are identified below.

| Year | % of species that are migrants | % of species occurrences that are migrants |
|------|--------------------------------|--|
| 1992 | 80.0 | 72.9 |
| 1995 | 76.7 | 84.9 |
| 1996 | 78.0 | . 84.8 |
| 1997 | 74.6 | 77.2 |

Table G2 divides West Point's bird species into areas in which nesting occurs. Seven nesting locations were identified. Woody upper canopy nesters were the most common (32.2%), followed by ground nesters (21.2%), woody lower canopy nesters (19.0%), and those nesting in shrubs (17.5%).

Table G3 divides West Point's bird species by the type of nest that is constructed. Eight nest types were identified. According to the data, the majority of West Point birds make a cup-type nest (63.9%), followed by cavity nesters (12.4%).

Table G4 lists the bird species by the types of foods used by each. Six food types were identified. According to the data, nearly 88.0% of the birds that were identified on West Point special use plots feed on insects.

Table G5 lists the bird species by feeding substrate categories. Five distinct feeding substrates were identified. According to the data, almost 41% of West Point bird species identified on special use plots, forage on the ground, followed by those that feed on foliage (25.2%), and in the air (20.0%).

Table G6 divides West Point's bird species by foraging technique categories. Thirteen foraging techniques have been identified from the birds occurring on West Point's special use plots. According to the data, the majority of birds were ground gleaners (37.5%), foliage gleaners (15.9%), and hover gleaners (12.5%).

Table G7 lists the species by habitat types. Eight distinct habitat types have been identified from the birds occurring on West Point's special use plots. According to the data, the majority of birds preferred forested areas (58.2%), forest edge (16.0%), and shrubland areas (7.2%).

Guild Information by Vegetation Type

Table H1 lists the vegetation types by neotropical migrant status. The overall percentage of neotropical migrant (Class A and Class B) species occurrences within each vegetation category are listed below.

Burn Barren - 85.5%

Hemlock-Hardwood Swamp - 89.1%

Hemlock-Northern Hardwood Forest - 84.5%

Oak-Hickory - 82.3%

Successional Old Field - 71.7%

Table H2 lists West Point bird species by nest location, with the total number of individuals within each vegetation type, by year.

Table H3 lists the bird species by nest type, with the total number of individuals within each vegetation type, by year.

Table H4 lists the bird species, by food type, with the total number of individuals within each vegetation category, by year.

Table H5 summarizes the bird species, by feeding substrate, with the total number of individuals within each vegetation category, by year.

Table H6 summarizes West Point bird species, by foraging technique, with the total number of individuals within each vegetation category, by year.

Table H7 summarizes West Point bird species, by habitat type, with the total number of individuals within each vegetation category, by year.

5 Conclusions

A total of 83 avian species (1,137 occurrences) were identified at the U.S. Military Academy during the summers of 1992, and 1995 through 1997, from LCTA special use plots. The total number of species and occurrences, by year, are as follows: 33 species (104 occurrences) in 1992, 63 species (288 occurrences) in 1995, 54 species (281 occurrences) in 1996, and 67 species (464 occurrences) in 1997.

Nine species were identified on special use plots that were not recorded from core plots. These species include: Bobolink, European Starling, Great Blue Heron, Fish Crow, Alder Flycatcher, Eastern Meadowlark, Great Horned Owl, Tennessee Warbler, and the American Woodcock.

Regarding overall numbers, the Canada Goose was the most frequently observed species on West Point special use plots, with 63 occurrences (5.5%), followed by the American Robin (5.4%), Scarlet Tanager (5.2%), and the Red-eyed Vireo (4.8%).

The number of species recorded on individual plots ranged between 20 species (plot 102) and 47 species (plot 101), with the average being 31 species per plot. However, plot 102 was sampled only in 1992. Species identified on all special use plots include: Brown-headed Cowbird, Great-crested Flycatcher, and the Red-eyed Vireo.

Five vegetative categories were recognized from LCTA special use plots on West Point. These include: Appalachian Oak-Hickory, Burn Barren, Hemlock-Hardwood Swamp, Hemlock-Northern Hardwood Forest, and Successional Old Field.

Approximately 72.3% of the species identified from West Point special use plots are categorized as neotropical migrants (Class A and Class B), while 27.7% are considered Resident species. The percentage of neotropical migrants per year ranged between 76.7% in 1995 to 80.0% in 1992.

Guild summaries by nesting location, nest type, food type, foraging substrate, foraging technique, and habitat type for bird species occurring on LCTA special use plots are as follows. Of the seven nesting locations, most species nested in the woody upper canopy (32.2%), on the ground (21.2%), in the woody lower canopy (19.0%), or in shrubs (17.5%). Of the eight nest types, the majority of birds make a

cup-type nest (63.9%), or a cavity nest (12.4%). Of the six food types used, nearly 88% of all species fed on insects. Of the five feeding substrates, nearly 41% of all species fed on the ground, on foliage (25.2%), or in air (20.0%). Of the thirteen foraging techniques, most species were ground gleaners (37.5%), foliage gleaners (15.9%), or hover gleaners (12.5%). Of the eight habitat types, most species preferred forested areas (58.2%), forest edge (16.0%), or shrubland areas (7.2%).

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Appendix A: West Point Species Checklist

Table A. Annotated LCTA bird species checklist for West Point special use plots, with total number of birds per year.

| Common Name | species checklist for West Point special Scientific Name | Vertid | 1992 | 1995 | 1996 | 1997 | Total |
|--|---|--------------|------|---------|------|------|-------|
| Blackbird, Red-winged | Agalaius phoeniceus | AGPH | 16 | 6 | 3 | 8 | 33 |
| Bluebird, Eastern | Sialia sialis | SISI | 0 | 3 | 0 | 2 | 5 |
| | Dolichonyx oryzivorus | DOOR | 2 | 1 | 2 | 1 | 6 |
| Bobolink | Passerina cyanea | PACY | 0 | 2 | 1 | 3 | 6 |
| Bunting, Indigo | Cardinalis cardinalis | CACA4 | 0 | 3 | 0 | 2 | 5 |
| Cardinal, Northern | Dumetella carolinensis | DUCA | 2 | 4 | 4 | 11 | 21 |
| Cathird, Gray | Parus atricapillus | PAAT | 0 | 4 | 5 | 7 | 16 |
| Chickadee, Black-capped Cowbird, Brown-headed | Molothrus ater | MCAT | 1 | 9 | 8 | 17 | 35 |
| | Carthia americana | CEAM | 0 | 1 | 0 | 0 | 1 |
| Creeper, Brown | Corvus brachyrhynchos | COBR1 | 18 | 4 | 7 | 5 | 34 |
| Crow, American | Columbina passerina | coos | 0 | 0 | 1 | 0 | 1 |
| Crow, Fish | Coccyzus erythropthalmus | COER | 1 | 2 | . 1 | 0 | 4 |
| Cuckoo, Black-billed | Coccyzus americanus | COAM | 0 | 1 | 0 | 0 | 1 |
| Cuckoo, Yellow-billed | Zenaida macroura | ZEMA | 2 | 0 | 0 | 0 | 2 |
| Dove, Mourning | Colaptes auratus | COAU | 4 | 10 | 10 | 5 | 29 |
| Flicker, Northern | Empidonax virescens | EMVI | 0 | 1 | 0 | 0 | 1 |
| Flycatcher, Acadian | Empidonax virescens Empidonax alnorum | EMAL | 1 | 0 | 0 | 0 | 1 |
| Flycatcher, Alder | Myiarchus crìnitus | MYCR | 1 | 8 | 9 | 11 | 29 |
| Flycatcher, Great Crested | Polioptila caerulea | POCA | 0 | 6 | 5 | 5 | 16 |
| Gnatcatcher, Blue-gray | Cardualis tristis | CATR | 1 | 5 | 4 | 10 | 20 |
| Goldfinch, American | | BRCA1 | 0 | 0 | 0 | 63 | 63 |
| Goose, Canada | Branta canadensis | QUQU | 0 | 4 | 2 | 2 | 8 |
| Grackle, Common | Guiscalus guisculs | PHLU | 0 | 4 | . 4 | 2 | 10 |
| Grosbeak, Rose-breasted | Pheucticus ludovicianus | BOUM | 0 | 1 | 0 | 0 | 1 |
| Grouse, Ruffed | Bonasa umbellus | BUPL | 0 | 0 | 0 | 2 | 2 |
| Hawk, Broad-winged | Bueto platypterus | BUJA | 0 | 1 | 0 | 0 | ı |
| Hawk, Red-tailed | Buteo jamaicensis | | 0 | 0 | 0 | 2 | 2 |
| Heron, Great Blue | Ardea herodias | ARHE | 2 | 6 | 8 | 8 | 24 |
| Jay, Blue | Cyanocitta cristata | CYCR | 2 | 1 | 0 | 1 | 4 |
| Killdeer | Charadrius vociferus | CHVO | 0 | 0 | 1 | 3 | 4 |
| Kingbird, Eastern | Tyrannus tyrannus | TYTY ANPL | 2 | 0 | 0 | 1 | 3 |
| Mallard | Anas platyrhynchos | STMA2 | 0 | 0 | 0 | 1 | 1 |
| Meadowlark, Eastern | Sturnella magna | MIPO | 2 | 1 | 2 | 1 | 6 |
| Mockingbird, Northern | Mimus polyglottos | | 0 | 4 | 4 | 11 | 19 |
| Nuthatch, White-breasted | Sitta carolinensis | SICA2 | | | . 10 | 22 | 44 |
| Oriole, Northern | Icterus galbula | ICGA | 0 | 12 5 | 10 | 11 | 26 |
| Ovenbird | Seiurus aurocapillus | SEAU | 0 | | 0 | 0 | 3 |
| Owl, Barred | Strix varia | STVA | 2 | 1 | | 0 | 1 |
| Owl, Great Horned | Bubo virginianus | BUVI | 0 | 1 | 0 | | . 1 |
| Parula, Northern | Parula americana | PAAM | 0 | 0 | 1 | 0 | 39 |
| Pewee, Eastern Wood | Contopus virens | COVII | 1 | 15 | 8 | 15 | |
| Phoebe, Eastern | Sayornis phoebe | SAPH | 0 | 4 | 0 | 2 | 25 |
| Redstart, American | Setophaga ruticilla | SERU1 | 2 | 4 | 9 | 12 | 27 |
| Robin, American | Turdus migratorius | TUMI | 9 | 15 | 17 | 20 | 61 |
| Sparrow, Chipping | Spizella passerina | SPPA2 | 0 | 12 | 9 | 9 | 30 |
| Sparrow, Field | Spizella pusilla | SPPU1 | 0 | ` 4 | 3 | 8 | 15 |
| Sparrow, Song | Melospiza melodia | MEME | 4 | 2 | 4 | 4 | 14 |
| Starling, European | Sturnus vulgaris | STVU | 5 | 0 | 0 | 0 | |
| Swallow, Barn | Hirundo rustica | HIRU | 0 | 0 | 0 | 2 | : |
| Tanager, Scarlet | Piranga olivacea | PIOL | 2 | 18 | 18 | 21 | 59 |
| Thrush, Hermit | Catharus guttatus | CAGU | . 0 | 3 | 1 | 3 | 7 |

Species Checklist

| Common Name | Scientific Name | Vertid | 1992 | 1995 | 1996 | 1997 | Total |
|-------------------------------|---|--------|------|------|------|------|-------|
| Thrush, Swainson's | Catharus ustulatus | CAUS | 0 | 0 | 0 | 1 | 1 |
| Thrush, Wood | Hylocichla mustelina | HYMU | 1 | 8 | 9 | 12 | 30 |
| , | Parus bicolor | PABI | 0 | 5 | 6 | 3 | 14 |
| Titmouse, Tufted | Pipilo erythrophthalmus | PIER | 0 | 11 | 11 | 16 | 38 |
| Towhee, Rufous-sided | Meleagris gallopavo | MEGA | 0 | 0 | 1 | 1 | 2 |
| Turkey, Wild | Catharus fuscescens | CAFU2 | 1 | 5 | 9 | 11 | 26 |
| Veery | Vireo olivaceus | VIOL | 3 | 12 | 18 | 22 | 55 |
| Vireo, Red-eyed | Vireo solitarius | VISO | 0 | 5 | 3 | 2 | 10 |
| Vireo, Solitary | Vireo gilvus | VIGI | 2 | 1 | 0 | 1 | 4 |
| Vireo, Warbling | Vireo flavifrons | VIFL | 1 | 4 | 5 | 4 | 14 |
| Vireo, Yellow-throated | Mniotilta varia | MNVA | 1 | 11 | 7 | 8 | 27 |
| Warbler, Black-and-white | Dendroica fusca | DEFU | 0 | 0 | 0 | 2 | 2 |
| Warbler, Blackburnian | Dendroica virens | DEVI | 0 | 3 | 0 | 2 | 5 |
| Warbler, Black-throated Green | Vermivora pinus | VEPI | 0 | 3 | 1 | 2 | 6 |
| Warbler, Blue-winged | Wilsonia canadensis | WICA | 0 | 1 | 0 | 0 | 1 |
| Warbler, Canada | *************************************** | DECE | 3 | 3 | 2 | 3 | 11 |
| Warbler, Cerulean | Dendroica cerulea | DEPE | 0 | 1 | 2 | 5 | 8 |
| Warbler, Chestnut-sided | Dendroica pensylvanica | | 0 | 0 | 0 | 1 | 1 |
| Warbler, Golden-winged | Vermivora chrysoptera | VECH | 0 | 1 | 4 | 4 | 9 |
| Warbler, Hooded | Wilsonia citrina | WICI | 0 | 6 | 6 | 9 | 21 |
| Warbler, Prairie | Dendroica discolor | DEDI | _ | 0 | 0 | 1 | 1 |
| Warbler, Tennessee | Vermivora peregrina | VEPE | 0 | 4 | 6 | 10 | 24 |
| Warbler, Yellow | Dendroica petechia | DEPE1 | 4 | • | 0 | 10 | 1 |
| Warbler, Yellow-rumped | Dendroica coronata | DECO | 0 | 0 | | 2 | 7 |
| Waterthrush, Louisiana | Seiurus motacilla | SEMO | 0 | 1 | 4 | 10 | - |
| Waxwing, Cedar | Bombycillidae cedrorum | BOCE | . 0 | 2 | 1 | | 13 |
| Woodcock, American | Scolopax minor | SCMI | . 0 | 1 | 0 | 0 | _ |
| Woodpecker, Downy | Picoides pubescens | PIPU | 0 | 3 | 1 | 2 | 6 |
| Woodpecker, Hairy | Picoides villosus | PIVI | 1 | 1 | 4 | 2 | 8 |
| Woodpecker, Pileated | Dryocopus pileatus | DRPI | 0 | 1 | 1 | 3 | 5 |
| Woodpecker, Red-bellied | Melanerpes carolinus | MECA | . 1 | 2 | 0 | 1 | 4 |
| Wren, House | Troglodytes aedon | TRAE | 0 | 0 | 2 | 0 | 2 |
| Wren, Winter | Troglodytes troglodytes | TRTR | 0 | 0 | 0 | . 1 | 1 |
| Yellowthroat, Common | Geothlypis trichas | GETR | 4 | 5 | 5 | 9 | 23 |
| | | | 104 | 288 | 279 | 464 | 1135 |

Appendix B: Plot Numbers for Each West Point Bird Species

| Common Name | ot numbers associated with each Scientific Name | VERTID | PLOTID | 1992 | 1995 | 1996 | 1997 |
|-------------------------|---|--------|--------|---------|------|------------|------|
| Blackbird, Red-winged | Agalaius phoeniceus | AGPH | 101 | 16 | 6 | 3 | 5 |
| Jiackond, Red-winged | 1.0 | | 106 | NR | 0 | 0 | 3 |
| Bluebird, Eastern | Sialia sialis | SISI | 104 | NR | 3 | 0 | (|
| Sidebild, Lastorn | | | 107 | NR | 0 | 0 | 2 |
| Bobolink | Dolichonyx oryzivorus | DOOR | 101 | 2 | 1 | 2 | |
| Bunting, Indigo | Passerina cyanea | PACY | 101 | 0 | 2 | 0 | : |
| 2 | | | 105 | NR | 0 | 1 | |
| Cardinal, Northern | Cardinalis cardinalis | CACA4 | 101 | 0 | 1 | 0 | 1 |
| | | | 103 | NR | 0 | 0 | |
| | | | 106 | NR | 1 | 0 | |
| | | | 110 | NR | 1 | 0 | |
| Catbird, Gray | Dumetella carolinensis | DUCA | 101 | 1 | 0 | 1 | |
| • | | | 102 | 1 | 0 | 0 | |
| | | | 105 | NR | 1 | 0 | |
| | | | 106 | NR | i | 0 | |
| | | | 107 | NR | 1 | 2 | |
| | • | | 108 | NR | 0 | 1 | |
| | | | 109 | NR | 0 | 0 | |
| | | | 110 | NR | 1 | 0 | |
| | | | 111 | NR | 0 | | |
| Chickadee, Black-capped | Parus atricapillus | PAAT | 103 | NR | 0 | 0 1 1 0 | |
| •• | | | 104 | NR | 1 | 0 | |
| | | | 105 | NR | 1 | 2 | |
| | | | 106 | NR | 1 | 1 | |
| | | | 107 | NR | 1 | 0 | |
| | | | 111 | NR | 0 | 1 | |
| Cowbird, Brown-headed | Molothrus ater | MOAT | 101 | 0 | 0 | 0 | |
| | | | 102 | 1 | 0 | 0 | |
| | | | 103 | NR | 3 | 1 | |
| | , | | 104 | NR | 0 | 0 | |
| | | | 105 | NR | 1 | 1 | |
| | | | 106 | NR | 0 | 1 | |
| | | | 107 | NR | 1 | 1 | |
| | | | 108 | NR | 1 | 0 | |
| | | | 109 | NR | 1 | 3 | |
| | | | 110 | NR | 1 | 0 | |
| | | | 111 | NR | | 1 | |
| Creeper, Brown | Carthia americana | CEAM | 103 | NR | 1 | 0 | |
| Crow, American | Corvus brachyrhynchos | COBR1 | 101 | 18 | 2 | 1 | |
| | | | 106 | NR | 0 | 2 | |
| | | | 110 | ŃR | 0 | 0 | |
| | 0.1.1: | 0000 | 111 | NR | 2 | 1 | |
| Crow, Fish | Columbina passerina | COOS | 101 | 0 | 0 | 0 | |
| Cuckoo, Black-billed | Coccyzus erythropthalmus | COER | 101 | 1 ND | . 1 | | |
| | | | 104 | NR | 1 | 0 | |
| | | 0044 | 107 | NR | 0 | 0 | |
| Cuckoo, Yellow-billed | Coccyzus americanus | COAM | 104 | NR | 0 | 0 | |
| Dove, Mourning | Zenaida macroura | ZEMA | 101 | 1 | | 0 | |
| | | | 102 | 1 | 0 | () | |

Plot Numbers for each Species

| Common Name | Scientific Name | VERTID | PLOTID | 1992 | 1995 | 1996 | 1997 |
|---------------------------|-------------------------|--------|--------|------|------|---|------|
| Flicker, Northern | Colaptes auratus | COAU | 101 | 0 | 1 | 1 | 2 |
| riickei, Normen | | | 102 | 4 | 0 | | 0 |
| | | | 103 | NR | 2 | 0 | 0 |
| | | | 104 | NR | 0 | | 0 |
| | | | 105 | NR | 0 | | 0 |
| | | | 106 | NR | 2 | 0 | 0 |
| | | | 108 | NR | 1 | 0 | 0 |
| | | | 109 | NR | 3 | 1 | 1 |
| | | | 110 | NR | 1 | 1. | 1 |
| • | | | 111 | NR | 0 | 3 | 1 |
| Flycatcher, Acadian | Empidonax virescens | EMVI | 106 | NR | 1 | 0 | 0 |
| Flycatcher, Alder | Empidonax alnorum | EMAL | 101 | 1 | 0 | 0 | 0 |
| Flycatcher, Great Crested | Myiarchus crinitus | MYCR | 101 | 0 | 1 | 0 | 1 |
| 11,000.001, 000.00 | | | 102 | 1 | 0 | 0 | 0 |
| | | | 103 | NR | 1 | 1 | . 2 |
| | • | | 104 | NR | 0 | 1 | 1 |
| | | | 105 | NR | 0 | 0 | . 1 |
| | | | 106 | NR | 0 | 1 | 0 |
| | | | 107 | NR | 0 | 2 | 2 |
| | | | 108 | NR | 2 | 2 | 3 |
| | | | 109 | NR | 0 | 0 | 0 |
| | | | 109 | NR | 2 | 0 | 0 |
| | | | 111 | NR | 2 | 2 | 1 |
| Gnatcatcher, Blue-gray | Polioptila caerulea | POCA | 104 | NR | 1 | 0 | . 2 |
| Ghatcatcher, Dide gray | | | 105 | NR | 1 | 0 | 0 |
| | | • | 106 | NR | 0 | 1 | 0 |
| | | | 109 | NR | 2 | 0 | 1 |
| | | | 110 | NR | 0 | 1 | 1 |
| | | | 111 | NR | 2 | 3 | 1 |
| Goldfinch, American | Cardualis tristis | CATR | 101 | 1 | 3 | 2 | 9 |
| Coldinion, Financia | | | 104 | NR | 1 | 0 | 0 |
| | | * | 105 | NR | 0 | 0 | 1 |
| | | | 106 | NR | .0 | 2 | . 0 |
| | | | 110 | NR | R | 0 | |
| Goose, Canada | Branta canadensis | BRCA1 | 101 | 0 | 0 | 1 0 0 0 2 2 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 0 0 0 1 1 1 2 2 0 0 0 0 | 57 |
| | | | 111 | NR | 0 | 0 | 6 |
| Grackle, Common | Guiscalus guisculs | QUQU | 101 | . 0 | 0 | 0 | 1 |
| Olaskie, Commission | · · · · · · | | 106 | NR | 0 | 1 | 0 |
| | | | 108 | NR | 1 | 0 | 0 |
| | | | 110 | NR | 3 | 0 | 1 |
| | | | 111 | NR | . 0 | 1 | 0 |
| Grosbeak, Rose-breasted | Pheucticus ludovicianus | PHLU | 104 | NR | 1 | 0 | 0 |
| | | | 106 | NR | 0 | 1 | 0 |
| | | | 109 | NR | 3 | 1 | 1 |
| | | | 110 | NR | . 0 | 2 | 1 |
| Grouse, Ruffed | Bonasa umbellus | BOUM | 105 | . NR | 1 | 0 | C |
| Hawk, Broad-winged | Bueto platypterus | BUPL | 101 | 0 | 0 | 0 | 2 |
| | Ducio piurijpierus | | | | | | |
| Hawk, Red-tailed | Buteo jamaicensis | BUJA | 110 | NR | 1 | 0 | |

Plot Numbers for each Species

| Common Name | Scientific Name | VERTID | PLOTID | 1992 | 1995 | 1996 | 1997 |
|---|----------------------|--------|--------|------|------|------|------|
| Jay, Blue | Cyanocitta cristata | CYCR | 101 | 0 | 1 | 1 | 0 |
| ay, Dide | -, | | 102 | 2 | 0 | 0 | 0 |
| | | | 103 | NR | 1 | 0 | 1 |
| | | | 104 | NR | 0 | 1 | 0 |
| | | | 105 | NR | 0 | 2 | 1 |
| | | | 106 | NR | 1 | 1 | 0 |
| | | | 107 | NR | 1 | 2 | 1 |
| | | | 108 | NR | 2 | 0 | 1 |
| | | | 109 | NR | 0 | 1 | 1 |
| | | | 110 | NR | 0 | 0 | 3 |
| Killdeer | Charadrius vociferus | CHVO | 101 | 2 | 1 | 0 | 1 |
| Kingbird, Eastern | Tyrannus tyrannus | TYTY | 101 | 0 | 0 | 0 | 1 |
| Italigona, Zastom | | | 105 | NR | 0 | 0 | 1 |
| | • | | 106 | NR | 0 | 1 | 1 |
| Mallard | Anas platyrhynchos | ANPL | 101 | 2 | 0 | 0 | . 1 |
| Meadowlark, Eastern | Sturnella magna | STMA2 | 101 | 0 | 0 | 0 | 1 |
| Mockingbird, Northern | Mimus polyglottos | MIPO | 101 | 2 | 1 | 2 | 1 |
| Nuthatch, White-breasted | Sitta carolinensis | SICA2 | 103 | NR | 0 | 1 | 3 |
| • | | | 104 | NR | . 0 | 1 | 1 |
| | | | 105 | NR | 0 | 0 | 1 |
| | | | 108 | NR | 1 | 0 | I |
| | | | 109 | NR | 2. | 1 | 0 |
| | | | 110 | NR | 1 | 1 | . 5 |
| Oriole, Northern | Icterus galbula | ICGA | 101 | 0 | 0 | . 0 | 1 |
| 011010, 1 1011110111 | 0 | | 103 | NR | 3 | 2 | 1 |
| | | | 104 | NR | 1 | 2 | 1 |
| | | • | 106 | NR | 0 | 0 | 1 |
| | | | 107 | NR | 1 | 1 | 2 |
| | | | 108 | NR | 1 | 1 | 1 |
| | | | 109 | NR | 2 | 1 | 3 |
| | | | 110 | NR | 3 | 2 | 4 |
| | | | 111 | NR | 1_ | 1 | 8 |
| Ovenbird | Seiurus aurocapillus | SEAU | 101 | 0 | 0 | 0 | . 1 |
| | | | 103 | NR | 0 | 1 | 2 |
| | | | 104 | NR | 0 | 0 | 1 |
| · · | | | 105 | NR | 1 | 1 | 2 |
| | | | 106 | NR | 0 | ,1 | 1 |
| | | | 108 | NR | 1 | 5 | 0 |
| | | | 109 | NR | 2 | 1 | 2 |
| | | | 110 | NR | 1 | 1 | 2 |
| Owl, Barred | Strix varia | STVA | 102 | 2 | 0 | 0 | 0 |
| , | | | 103 | NR | 1 | 0 | 0 |
| Owl, Great Horned | Bubo virginianus | BUVI | 105 | NR | 1 | 0 | 0 |
| Parula, Northern | Parula americana | PAAM | 104 | NR | 0 | 1 | 0 |

Plot Numbers for each Species

| Common Name | Scientific Name | VERTID | PLOTID | 1992 | 1995 | 1996 | 1997 |
|---------------------|---------------------|--------|--------|------|------|--|------|
| Pewee, Eastern Wood | Contopus virens | COVII | 102 | 1 | 0 | 0 | 0 |
| Pewee, Eastern wood | Compactual | | 103 | NR | 2 | 0 2 0 0 0 1 1 1 2 1 0 0 0 0 0 1 1 1 0 0 1 1 1 2 0 0 1 1 1 2 0 0 1 1 1 1 | 3 |
| | | | 104 | NR | 1 | 0 | 2 |
| | | | 105 | NR | 1 | 0 | 1 |
| | | | 106 | NR | 0 | 0 | 1 |
| | | | 107 | NR | 2 | 1 | 1 |
| | | | 108 | NR | 3 | 1 | 1 |
| | | | 109 | NR | 2 | 2 | 2 |
| | | | 110 | NR | 2 | 1 | 3 |
| | | | 111 | NR | 2 | 1 | 1 |
| Dhoobo Fastern | Sayornis phoebe | SAPH | 104 | NR | 2 | 0 | 1 |
| Phoebe, Eastern | bwyorms provided | | 105 | NR | 0 | 0 | 1 |
| | | | 109 | NR | 1 | 0 | 0 |
| | | | 111 | NR | 1 | 0 | 0 |
| Redstart, American | Setophaga ruticilla | SERU1 | 102 | 2 | 0 | 0 | . 0 |
| Redstart, American | Setophaga runcina | | 103 | NR | 0 | 0 2 0 0 0 0 1 1 2 1 0 0 0 0 0 1 1 1 0 0 0 1 1 1 0 0 0 1 1 1 1 0 0 1 1 1 1 0 0 1 | 2 |
| | | | 104 | NR | 2 | 1 | 1 |
| | | | 105 | NR | 0 | 0 | 1 |
| | | | 106 | NR | 2 | 1 | 1 |
| | | | 108 | NR | 0 | 1 | 1 |
| | | | 109 | NR | 0 | 2 | 3 |
| | | | 110 | NR | 0 | | 3 |
| D. Lin American | Turdus migratorius | TUMI | 101 | 7 | 2 | 2 | 5 |
| Robin, American | 1 uraus migratorius | 20112 | 102 | 2 | 0 | 0 | 0 |
| | | | 103 | NR | 5 | 4 | 3 |
| | | | 104 | NR | 2 | i | 1 |
| | | | 105 | NR | 1 | 1 | 0 |
| | • | | 107 | NR | 0 | 1 | 2 |
| | | | 108 | NR | 1 | 0 | 0 |
| | | | 109 | NR | 1 | 4 | 3 |
| | | | 110 | NR | 3 | 4 | 4 |
| | | | 111 | NR | 0 | 0 | 2 |
| Sparrow, Chipping | Spizella passerina | SPPA2 | 101 | 0 | 1 | 1 | 1 |
| Sparrow, Chipping | Брігена разветна | | 103 | NR | 1 | 1 | 1 |
| | | | 104 | NR | 3 | 4 | 4 |
| | | | 105 | NR . | 2 | 0 | 1 |
| | , | | 109 | NR | 1 | | 0 |
| | | | 110 | NR | 4 | 2 | 1 |
| | | | 111 | NR | 0 | | 1 |
| Sparrow, Field | Spizella pusilla | SPPU1 | 101 | 0 | 2 | | 6 |
| opanow, ricid | приста ризти | 5.1.01 | 107 | NR | 2 | | 2 |
| Sparrow, Song | Melospiza melodia | меме | 101 | 4 | 2 | | 4 |
| Starling, European | Sturnus vulgaris | STVU | 101 | 5 | 0 | 0 | 0 |
| | Hirundo rustica | HIRU | 101 | 0 | 0 | 0 | 2 |
| Swallow, Barn | ritunao rusiica | HIKU | 101 | | | | |

| ommon Name | Scientific Name | VERTID | PLOTID | 1992 | 1995 | 1996 | 1997 |
|--|-------------------------|--------|--------|------|------|------|------|
| anager, Scarlet | Piranga olivacea | PIOL | 102 | 2 | 0 | 0 | 0 |
| anager, scarce | | | 103 | NR | 1 | 3 | 5 |
| | | | 104 | NR | 2 | 3 | 3 |
| | | | 105 | NR | 1 | 2 | 2 |
| | | | 106 | NR | 3 | 1 | 3 |
| | | | 107 | NR | 2 | 1 | 3 |
| | | | 108 | NR | 3 | 2 | 3 |
| | | | 109 | NR | 1 | 2 | : |
| | | | 110 | NR | 3 | 3 | : |
| | | | 111 | NR | 2 | 1 | |
| Thrush, Hermit | Catharus guttatus | CAGU | 105 | NR | 1 | 0 | |
| in usii, a a a a a a a a a a a a a a a a a a | | | 106 | NR | 0 | 0 | |
| | • | | 107 | NR | 0 | I | |
| | | | 108 | NR | 1 | 0 | |
| | | | 111 | NR | 1 | 0 | |
| Thrush, Swainson's | Catharus ustulatus | CAUS | 105 | NR | 0 | 0 | |
| hrush, Wood | Hylocichla mustelina | HYMU | 101 | 0 | 0 | 0 | |
| | | | 102 | 1 | 0 | 0 | |
| | | | 103 | NR | 2 | 3 | |
| | | | 104 | NR | 1 | 0 | |
| | | | 105 | NR | 2 | 1 | • |
| | | | 106 | NR | 0 | 1 | |
| | | | 107 | NR | 1 | 0 | |
| | | | 108 | NR | 0 | 1 | |
| | | | 109 | . NR | 2, | 2 | |
| | | | 110 | NR | 0 | 1 | |
| itmouse, Tufted | Parus bicolor | PABI | 104 | NR | 1 | 0 | |
| | | | 106 | NR | 0 | 0 | |
| | | | 107 | NR | 1 | 0 | |
| | | | 108 | NR | 0 | 2 | |
| | | | 109 | NR | 1 | 1 | |
| | | | 110 | NR | 1 | 0 | |
| | | | 111 | NR | 1 | 3 | |
| Towhee, Rufous-sided | Pipilo erythrophthalmus | PIER | 101 | 0 | 1 | 1 | |
| | | | 103 | NR. | 0 | 1 | |
| | • | | 104 | NR | 1 | 0 | |
| | | | 105 | NR | 3 | 4 | |
| | | | 106 | NR | 1 | 0 | |
| • | | | 107 | NR | 3 | 3 | |
| | | | 108 | NR | 0 | 1 | |
| | | | 109 | NR | 1 | 0 | |
| | | • | 110 | NR | 1 | 1 | |
| | | | 111 | NR | 0 | 0 | |
| Turkey, Wild | Meleagris gallopavo | MEGA | 101 | 0 | 0 | 0 | |

| Common Name | Scientific Name | VERTID | PLOTID | 1992 | 1995 | 1996 | 1997 |
|-------------------------------|---------------------|--------|--------|------|------|------|------|
| | Catharus fuscescens | CAFU2 | 101 | 0 | 0 | 1 | 1 |
| Veery | Camar no justice | | 102 | 1 | 0 | . 0 | 0 |
| | | | 103 | NR | 0 | 1 | 1 |
| | | | 104 | NR | 0 | 1 | 0 |
| | | • | 105 | NR | 2 | 0 | 1 |
| | | | 106 | NR | 2 | 3 | 2 |
| | | | 107 | NR | 0 | 0 | 2 |
| | , | | 109 | NR | 1 | 3 | 3 |
| | | | 110 | NR | 0 | 0 | 1 |
| | Vireo olivaceus | VIOL | 101 | 0 | 1 | 0 | 0 |
| Vireo, Red-eyed | vireo otivaceus | VIOL | 102 | 3 | 0 | 0 | 0 |
| | | | 103 | NR | 2 | 4 | 3 |
| | | | 104 | NR | 2 | 5 | 3 |
| | | | 105 | NR | 1 | 1 | 3 |
| | | | | NR | 2 | 2 | 2 |
| | | | | NR | . 1 | 2 | . 2 |
| | | | 107 | | - | 1 | 0 |
| | | * | 108 | NR | 0 | | |
| | | | 1,09 | NR | 1 | 1 | 4 |
| | | | 110 | NR | 1 | 1 | 4 |
| | | | 111 | NR | 1 | 1 | 1 |
| Vireo, Solitary | Vireo solitarius | VISO | 103 | NR | 0 | 0 | 1 |
| | | | 104 | NR | 0 | 2 | 0 |
| | | | 105 | NR | 3 | 0 | 0 |
| | | | 106 | NR | 2 | 1 | 1 |
| Vireo, Warbling | Vireo gilvus | VIGI | · 101 | . 2 | 0 | 0 | 0 |
| | | | 111 | NR | 1 | 0 | 1 |
| Vireo, Yellow-throated | Vireo flavifrons | VIFL | 101 | 0 | 2 | 0 | 0 |
| | | | 102 | 1 | 0 | 0 | 0 |
| | | | 103 | NR | 0 | 0 | 1 |
| | | | 104 | NR | 0 | 1 | 0 |
| | | | 106 | NR | 0 | 1 | . 0 |
| | • | | 108 | NR | 0 | 0 | 1 |
| | | | 109 | NR | 0 | 0 | 1 |
| | | | 110 | NR | 1 | 2 | 1 |
| | | | 111 | NR | 1 | 1 | 0 |
| Warbler, Black-and-white | Mniotilta varia | MNVA | 101 | 0 | 0 | 0 | 1 |
| Waltici, Black-and-wine | | | 102 | 1 | 0 | 0 | 0 |
| | | | 103 | NR | . 1 | 0 | 1 |
| | | | 104 | NR | 2 | 0 | 0 |
| | | | 105 | NR | 2 | 3 | 2 |
| | | | 106 | NR | 2 | 0 | 1 |
| | | | 107 | NR | 1 | 2 | 1 |
| | | | 108 | NR | 1 | 0 | 1 |
| | | | 109 | NR | 1 | 0 | C |
| | | • | 111 | NR | 1 | 2 | 1 |
| Washing Disabbassis | Dendroica fusca | DEFU | 103 | NR | . 0 | 0 | 1 |
| Warbler, Blackburnian | Denaroica jusca | DLI U | 106 | NR | 0 | 0 | 1 |
| W. 11. DI 1.3 | Dandacianaira | DEVI | 106 | NR | 3 | 0 | 2 |
| Warbler, Black-throated Green | Dendroica virens | | 101 | 0 | 3 | 1 | 2 |
| Warbler, Blue-winged | Vermivora pinus | VEPI | | | 1 | 0 | - 0 |
| Warbler, Canada | Wilsonia canadensis | WICA | 105 | NR | 1 | | |

| Common Name | Scientific Name | VERTID | PLOTID | 1992 | 1995 | 1996 | 1997 |
|--------------------------|------------------------|--------|--------|---------|------|------|------------|
| Varbler, Cerulean | Dendroica cerulea | DECE | 102 | 3 | 0 | 0 | 0 |
| varbier, Ceruican | | | 104 | NR | 2 | 0 | I |
| | | | 109 | NR | 0 | 0 | 2 |
| | | | 110_ | NR | 1 | 2 | 0 |
| Warbler, Chestnut-sided | Dendroica pensylvanica | DEPE | 101 | 0 | 0 | 1 | 3 |
| Warbier, Chestilut-sided | • | | 103 | NR | 0 | 1 | 1 |
| | , | | 105 | NR | 1 | 0 | 0 |
| | | | 106 | NR | 0 | 0 | 1 |
| Warbler, Golden-winged | Vermivora chrysoptera | VECH | 101 | 0 | 0 | 0 | 1 |
| Warbler, Hooded | Wilsonia citrina | WICI | 110 | NR | 1 | 4 | 4 |
| Warbler, Prairie | Dendroica discolor | DEDI | 101 | 0 | 4 | 1 | 4 |
| VV III 0101, 7 241112 | | | 105 | NR | 1 | 2 | 3 |
| | | | 107 | NR | 1 | 1 | 0 |
| | | | 108 | NR | 0 | 2 | 1 |
| | | | 109 | NR | 0 | 0 | <u>. 1</u> |
| Warbler, Tennessee | Vermivora peregrina | VEPE | 104 | NR | 0 | 0 | 1 |
| Warbler, Yellow | Dendroica petechia | DEPE1 | 101 | . 4 | 3 | 3 | 6 |
| , | | | 105 | NR | 1 | 0 | (|
| | | | 106 | NR | 0 | 1 | 1 |
| | | | 109 | NR | 0 | . 1 | 1 |
| | | | 110 | NR | 0 | 1 | (|
| | | | 111 | NR | 0 | 0 | |
| Warbler, Yellow-rumped | Dendroica coronata | DECO | 104 | NR | 0 | 0 | 1 |
| Waterthrush, Louisiana | Seiurus motacilla | SEMO | 105 | NR | 0 | 2 | (|
| | | | 107 | NR | 1 | 1 | (|
| | | | 109 | NR | 0 | 0 | 2 |
| | | | 111 | NR | 0 | 1 | |
| Waxwing, Cedar | Bombycillidae cedrorum | BOCE | 105 | NR | 0 | 0 | 2 |
| | | | 106 | NR | 0 | 0 | |
| | | | 107 | NR | 2 | 1 | |
| | | | 111 | NR | 0 | 0 | |
| Woodcock, American | Scolopax minor | SCMI | 110 | NR | 1 | 0 | (|
| Woodpecker, Downy | Picoides pubescens | PIPU | 101 | 0 | 0 | 0 | |
| | | | 109 | NR | 1 | 0 | • |
| | | | 110 | NR | 0 | 1 | |
| | | | 111 | NR | 2 | 0 | |
| Woodpecker, Hairy | Picoides villosus | PIVI | 102 | 1 | 0 | 0 | |
| | | | 104 | NR | . 1 | 0 | |
| | | | 105 | NR | 0 | 1 | |
| | | | 108 | NR | 0 | 1 | |
| | | | 109 | NR · | 0 | 1 | |
| | | | 110 | NR | 0 | 1 | |
| Woodpecker, Pileated | Dryocopus pileatus | DRPI | 103 | NR | 1 | 0 | |
| | | | 104 | NR | 0 | 0 | |
| | | | 106 | NR | . 0 | 0 | |
| | | | 108 | NR | 0 | 1 | |
| | | | 109 | NR | 0 | 0 | |

| Common Name | Scientific Name | VERTID | PLOTID | 1992 | 1995 | 1996 | 1997 |
|-------------------------|-------------------------|--------|--------|------|------|------|------|
| | Melanerpes carolinus | MECA | 102 | 1 | 0 | 0 | 0 |
| Woodpecker, Red-bellied | metancipes care | | 106 | NR | 0 | 0 | 1 |
| | | | 108 | NR | 1 | 0 | 0 |
| | | | 109 | NR | 1 | 0 | 0 |
| Wren, House | Troglodytes aedon | TRAE | 101 | 0 | 0 | 2 | 0 |
| Wren, Winter | Troglodytes troglodytes | TRTR | 105 | NR | 0 | 0 | 1 |
| Yellowthroat, Common | Geothlypis trichas | GETR | 101 | .3 | 3 | .2 | 2 |
| Tellowaliout, Common | ,, | | 102 | 1 | 0 | 0 | 0 |
| | | | 103 | NR | 0 | 0 | 1 |
| • | | | 106 | NR | 0 | 0 | 2 |
| | • | | 107 | NR | 0 | 1 | 1 |
| | | | 108 | NR | 0 | 1 | 0 |
| | | | 109 | NR | 2 | 1 | 3 |
| | | | | 104 | 288 | 279 | 464 |

Appendix C: West Point Bird Species on Each LCTA Plot

| Table C Rird species che | klist for West | Point special | l use plots. |
|--------------------------|----------------|---------------|--------------|
|--------------------------|----------------|---------------|--------------|

| PLOTID | Sird species checklist for West I Common Name | Scientific Name | VERTID | 1992 | 1995 | 1996 | 1997 |
|--------|--|--------------------------|-------------|------|------|------|------|
| | Blackbird, Red-winged | Agalaius phoeniceus | AGPH | 16 | 6 | 3 | 5 |
| 101 | Bobolink | Dolichonyx oryzivorus | DOOR | 2 | 1 | 2 | 1 |
| | Bunting, Indigo | Passerina cyanea | PACY | 0 | 2 | 0 | 2 |
| | Cardinal, Northern | Cardinalis cardinalis | CACA4 | 0 | 1 | 0 | 0 |
| | Catbird, Gray | Dumetella carolinensis | DUCA | 1 | 0 | 1 | 2 |
| | Cowbird, Brown-headed | Molothrus ater | MOAT | 0 | 0 | 0 | 1 |
| | Crow, American | Corvus brachyrhynchos | COBRI | 18 | 2 | 1 | 3 |
| | Crow, Fish | Columbina passerina | COOS | 0 | 0 | 1 | 0 |
| | Cuckoo, Black-billed | Coccyzus erythropthalmus | COER | 1 | 1 | 0 | 0 |
| | Dove, Mourning | Zenaida macroura | ZEMA | 1 | 0 | 0 | 0 |
| | Flicker, Northern | Colaptes auratus | COAU | 0 | 1 | 1 | 2 |
| | Flycatcher, Alder | Empidonax alnorum | EMAL | 1 | 0 | 0 | 0 |
| | Flycatcher, Great Crested | Myiarchus crinitus | MYCR | 0 | 1 | 0 | 1 |
| | Goldfinch, American | Cardualis tristis | CATR | 1 | 3 | 2 | . 9 |
| | Goose, Canada | Branta canadensis | BRCA1 | 0 | 0 | 0 | 57 |
| | Grackle, Common | Guiscalus guisculs | QUQU | 0 | 0 | 0 | . 1 |
| | Hawk, Broad-winged | Bueto platypterus | BUPL | 0 | 0 | 0 | 2 |
| | Jay, Blue | Cyanocitta cristata | CYCR | 0 | 1 | 1 | 0 |
| | Killdeer | Charadrius vociferus | CHVO | 2 | 1 | 0 | 1 |
| | Kingbird, Eastern | Tyrannus tyrannus | TYTY | 0 | 0 | 0 | 1 |
| | Mallard | Anas platyrhynchos | ANPL | 2 | 0 | 0 | 1 |
| | Meadowlark, Eastern | Sturnella magna | STMA2 | 0 | .0 | 0 | 1 |
| | Mockingbird, Northern | Mimus polyglottos | MIPO | 2 | 1 | 2 | 1 |
| | Oriole, Northern | Icterus galbula | ICGA | 0 | 0 | 0 | 1 |
| | Ovenbird | Seiurus aurocapillus | SEAU | 0 | 0 | 0 | 1 |
| | Robin, American | Turdus migratorius | TUMI | 7 | 2 | 2 | 5 |
| | Sparrow, Chipping | Spizella passerina | SPPA2 | 0 | 1 | 1 | 1 |
| | Sparrow, Field | Spizella pusilla | SPPU1 | 0 | 2 | 2 | 6 |
| | Sparrow, Song | Melospiza melodia | MEME | 4 | 2 | 4 | 4 |
| | Starling, European | Sturnus vulgaris | STVU | 5 | 0 | 0 | 0 |
| | Swallow, Barn | Hirundo rustica | HIRU | 0 | 0 | 0 | 2 |
| | Thrush, Wood | Hylocichla mustelina | HYMU | 0 | . 0 | 0 | 2 |
| | Towhee, Rufous-sided | Pipilo erythrophthalmus | PIER | 0 | 1 | 1 | 3 |
| | Turkey, Wild | Meleagris gallopavo | MEGA | 0. | 0 | 0 | 1 |
| | Veery | Catharus fuscescens | CAFU2 | 0 | 0 | 1 | 1 |
| | Vireo, Red-eyed | Vireo olivaceus | VIOL | 0 | 1 | 0 | 0 |
| | Vireo, Warbling | Vireo gilvus | VIGI | 2 | 0 | 0 | 0 |
| | Vireo, Yellow-throated | Vireo flavifrons | VIFL | 0 | 2 | 0 | 0 |
| | Warbler, Black-and-white | Mniotilta varia | MNVA | 0 | 0 | 0 | 1 |
| | Warbler, Blue-winged | Vermivora pinus | VEPI | 0 | 3 | 1 | 2 |
| | Warbler, Chestnut-sided | Dendroica pensylvanica | DEPE | 0 | 0 | 1 | 3 |
| | Warbler, Golden-winged | Vermivora chrysoptera | VECH | 0 | 0 | 0 | 1 |
| | Warbler, Prairie | Dendroica discolor | DEDI | 0 | 4 | 1 | 4 |
| | Warbler, Yellow | Dendroica petechia | DEPEI | 4 | . 3 | 3 | 6 |
| | Woodpecker, Downy | Picoides pubescens | PIPU | 0 | . 0 | 0 | 1 |
| | Wren, House | Troglodytes aedon | TRAE | 0 | 0 | 2 | 0 |
| | Yellowthroat, Common | Geothlypis trichas | GETR | 3 | 3 | 2 | 2 |

| PLOTID | Common Name | Scientific Name | VERTID | 1992 | 1995 | 1996 | 1997 |
|--------|---------------------------|-------------------------|--------|------|------|------|------|
| | Catbird, Gray | Dumetella carolinensis | DUCA | 1 | 0 | 0 | 0 |
| 102 | Cowbird, Brown-headed | Molothrus ater | MOAT | 1 | . 0 | 0 | 0 |
| | Dove, Mourning | Zenaida macroura | ZEMĄ | 1 | 0 | 0 | 0 |
| | Flicker, Northern | Colaptes auratus | COAU | 4 | 0 | 0 | 0 |
| | Flycatcher, Great Crested | Myiarchus crinitus | MYCR | 1 | 0 | 0 | 0 |
| | Jay, Blue | Cyanocitta cristata | CYCR | 2 | 0 | 0 | 0 |
| | Owl, Barred | Strix varia | STVA | 2 | 0 | 0 | 0 |
| | Pewee, Eastern Wood | Contopus virens | COVII | 1 | 0 | 0 | 0 |
| | Redstart, American | Setophaga ruticilla | SERU1 | 2 | 0 | 0 | 0 |
| | Robin, American | Turdus migratorius | TUMI | 2 | 0 | 0 | 0 |
| | Tanager, Scarlet | Piranga olivacea | PIOL | 2 | 0 | 0 | 0 |
| • | Thrush, Wood | Hylocichla mustelina | HYMU | 1 | 0 | 0 | 0 |
| | Veery | Catharus fuscescens | CAFU2 | 1 | 0 | 0 | 0 |
| | Vireo, Red-eyed | Vireo olivaceus | VIOL | 3 | 0 | 0 | 0 |
| | Vireo, Yellow-throated | Vireo flavifrons | VIFL | 1 | 0 | 0 | . 0 |
| | Warbler, Black-and-white | Mniotilta varia | MNVA | 1 | 0 | 0 | 0 |
| | Warbler, Cerulean | Dendroica cerulea | DECE | 3 | 0 | 0 | 0 |
| | Woodpecker, Hairy | Picoides villosus | PIVI . | 1 | 0 | 0 | 0 |
| | Woodpecker, Red-bellied | Melanerpes carolinus | MECA | ` 1 | 0 | 0 | 0 |
| | Yellowthroat, Common | Geothlypis trichas | GETR | 1 | 0 | 0 | 0 |
| 103 | 3 Cardinal, Northern | Cardinalis cardinalis | CACA4 | NR | 0 | 0 | 1 |
| 10. | Chickadee, Black-capped | Parus atricapillus | PAAT | NR | 0 | 1 | 1 |
| | Cowbird, Brown-headed | Molothrus ater | MOAT | NR | 3 | 1 | 4 |
| | Creeper, Brown | Carthia americana | CEAM | NR | 1 | 0 | 0 |
| | Flicker, Northern | Colaptes auratus | COAU | NR | 2 | 0 | 0 |
| | Flycatcher, Great Crested | Myiarchus crinitus | MYCR | NR | 1 | 1 | . 2 |
| | Jay, Blue | Cyanocitta cristata | CYCR | NR | 1 | 0 | 1 |
| | Nuthatch, White-breasted | Sitta carolinensis | SICA2 | NR | 0 | 1 | 3 |
| | Oriole, Northern | Icterus galbula | ICGA | NR | 3 | 2 | 1 |
| | Ovenbird | Seiurus aurocapillus | SEAU | NR | 0 | 1 | 2 |
| | Owl, Barred | Strix varia | STVA | . NR | 1 | 0 | . 0 |
| | Pewee, Eastern Wood | Contopus virens | COVII | NR | 2 | 2 | 3 |
| | Redstart, American | Setophaga ruticilla | SERU1 | NR | 0 | 1 | 2 |
| | Robin, American | Turdus migratorius | TUMI | NR | 5 | 4 | 3 |
| | Sparrow, Chipping | Spizella passerina | SPPA2 | NR | 1 | 1 | 1 |
| | Tanager, Scarlet | Piranga olivacea | PIOL | NR | 1 | 3 | 5 |
| | Thrush, Wood | Hylocichla mustelina | HYMU | NR | 2 | 3 | 3 |
| | Towhee, Rufous-sided | Pipilo erythrophthalmus | PIER | NR | 0 | 1 | 2 |
| | Veery | Catharus fuscescens | CAFU2 | NR | 0 | 1 | 1 |
| | Vireo, Red-eyed | Vireo olivaceus | VIOL | NR | 2 | 4 | 3 |
| | Vireo, Solitary | Vireo solitarius | VISO | NR | 0 | 0 | 1 |
| | Vireo, Yellow-throated | Vireo flavifrons | VIFL | NR | 0 | 0 | 1 |
| | Warbler, Black-and-white | Mniotilta varia | MNVA | NR | 1 | 0 | 1 |
| | Warbler, Blackburnian | Dendroica fusca | DEFU | . NR | 0 | 0 | 1 |
| | Warbler, Chestnut-sided | Dendroica pensylvanica | DEPE | NR | 0 | 1 | 1 |
| | Woodpecker, Pileated | Dryocopus pileatus | DRPI | NR | 1 | 0 | 0 |
| | Yellowthroat, Common | Geothlypis trichas | GETR | NR | 0_ | 0 | 1 |

| OTID | Common Name | Scientific Name | VERTID | 1992 | 1995 | 1996 | 199 |
|------|---------------------------|--|--------|------|------|------|-----|
| _ | Bluebird, Eastern | Sialia sialis | SISI | NR | 3 | 0 |) |
| 104 | Chickadee, Black-capped | Parus atricapillus | PAAT | NR | 1 | 0 | |
| | Cowbird, Brown-headed | Molothrus ater | MOAT | NR | 0 | 0 | |
| | Cuckoo, Black-billed | Coccyzus erythropthalmus | COER | NR | 1 | 0 | |
| | Cuckoo, Yellow-billed | Coccyzus americanus | COAM | NR | 1 | 0 | |
| | Flicker, Northern | Colaptes auratus | COAU | NR | 0 | 2 | |
| | Flycatcher, Great Crested | Myiarchus crinitus | MYCR | NR | 0 | 1 | |
| | Gnatcatcher, Blue-gray | Polioptila caerulea | POCA | NR | 1 | 0 | |
| | Goldfinch, American | Cardualis tristis | CATR | NR | 1 | 0 | |
| | Grosbeak, Rose-breasted | Pheucticus ludovicianus | PHLU | NR | 1 | 0 | |
| | Jay, Blue | Cyanocitta cristata | CYCR | NR | 0 | 1 | |
| | Nuthatch, White-breasted | Sitta carolinensis | SICA2 | NR | 0 | 1 | |
| | Oriole, Northern | Icterus galbula | ICGA | NR | 1 | 2 | |
| | Ovenbird | Seiurus aurocapillus | SEAU | NR | 0 | 0 | |
| | Parula, Northern | Parula americana | PAAM | NR | 0 | 1 | |
| | Pewee, Eastern Wood | Contopus virens | COVII | NR | 1 | 0 | · |
| | Phoebe, Eastern | Sayornis phoebe | SAPH | NR | 2 | 0 | |
| | | Setophaga ruticilla | SERU1 | NR | 2 | 1 | |
| | Redstart, American | Turdus migratorius | TUMI | NR | 2 | 1 | |
| | Robin, American | Spizella passerina | SPPA2 | NR | 3 | 4 | |
| | Sparrow, Chipping | Piranga olivacea | PIOL | NR | 2 | 3 | |
| | Tanager, Scarlet | Hylocichla mustelina | HYMU | NR | 1 | 0 | |
| | Thrush, Wood | Parus bicolor | PABI | NR | 1 | 0 | |
| | Titmouse, Tufted | - | PIER | NR | 1 | 0 | |
| | Towhee, Rufous-sided | Pipilo erythrophthalmus Catharus fuscescens | CAFU2 | NR | 0 | 1 | |
| | Veery | Vireo olivaceus | VIOL | NR | 2 | 5 | |
| | Vireo, Red-eyed | Vireo otivaceus Vireo solitarius | VISO | NR | 0 | 2 | |
| | Vireo, Solitary | | VISO | NR | 0 | 1 | |
| | Vireo, Yellow-throated | Vireo flavifrons | MNVA | NR | 2 | 0 | |
| | Warbler, Black-and-white | Mniotilta varia | | NR | 2 | 0 | |
| | Warbler, Cerulean | Dendroica cerulea | DECE | NR | 0 | 0 | |
| | Warbler, Tennessee | Vermivora peregrina | VEPE | | 0 | 0 | |
| | Warbler, Yellow-rumped | Dendroica coronata | DECO | NR | | | |
| | Woodpecker, Hairy | Picoides villosus | PIVI | NR | 1 | 0 | |
| | Woodpecker, Pileated | Dryocopus pileatus | DRPI | NR | 0 | 0 | |
| 10. | 5 Bunting, Indigo | Passerina cyanea | PACY | NR | | | |
| | Catbird, Gray | Dumetella carolinensis | DUCA | NR | 1 | 0 | |
| | Chickadee, Black-capped | Parus atricapillus | PAAT | NR | 1 | 2 | |
| | Cowbird, Brown-headed | Molothrus ater | MOAT | NR | . 1 | 1 | |
| | Flicker, Northern | Colaptes auratus | COAU | NR | 0 | 2 | |
| | Flycatcher, Great Crested | Myiarchus crinitus | MYCR | NR | 0 | 0 | |
| | Gnatcatcher, Blue-gray | Polioptila caerulea | POCA | NR | 1 | 0 | |
| | Goldfinch, American | Cardualis tristis | CATR | NR | 0 | 0 | ٠ |
| | Grouse, Ruffed | Bonasa umbellus | BOUM | NR | 1 | 0 | |
| | Jay, Blue | Cyanocitta cristata | CYCR | NR | 0 | 2 | |
| | Kingbird, Eastern | Tyrannus tyrannus | TYTY | NR | . 0 | 0 | |
| | Nuthatch, White-breasted | Sitta carolinensis | SICA2 | NR | 0 | 0 | |
| | Ovenbird | Seiurus aurocapillus | SEAU | NR | 1 | 1 | |
| | Owl, Great Horned | Bubo virginianus | BUVI | NR | 1 | 0 | |
| | Pewee, Eastern Wood | Contopus virens | COVII | NR | 1 | 0 | |
| | Phoebe, Eastern | Sayornis phoebe | SAPH | NR | 0 | 0 | |

| PLOTID | Common Name | Scientific Name | VERTID | 1992 | 1995 | 1996 | 1997 |
|--------|--|-------------------------|--------|------|------|------|------|
| FLOTID | Redstart, American | Setophaga ruticilla | SERU1 | NR | 0 | 0 | 1 |
| | Robin, American | Turdus migratorius | TUMI | NR | 1 | 1 | 0 |
| | Sparrow, Chipping | Spizella passerina | SPPA2 | · NR | 2 | 0 | 1 |
| | Tanager, Scarlet | Piranga olivacea | PIOL | NR | 1 | 2 | 2 |
| | Thrush, Hermit | Catharus guttatus | CAGU | NR | 1 | 0 | 1 |
| | Thrush, Swainson's | Catharus ustulatus | CAUS | NR | 0 | 0 | 1 |
| | Thrush, Wood | Hylocichla mustelina | HYMU | NR | 2 | .1 | 2 |
| | Towhee, Rufous-sided | Pipilo erythrophthalmus | PIER | NR | 3 | 4 | 4 |
| | | Catharus fuscescens | CAFU2 | NR | 2 | 0 | 1 |
| | Veery Vireo, Red-eyed | Vireo olivaceus | VIOL | NR | 1 | 1 | 3 |
| | • | . Vireo solitarius | VISO | NR | 3 | 0 | 0 |
| | Vireo, Solitary Warbler, Black-and-white | Mniotilta varia | MNVA | NR | 2 | 3 | 2 |
| | | Wilsonia canadensis | WICA | NR | 1 | 0 | 0 |
| | Warbler, Canada | Dendroica pensylvanica | DEPE | NR | 1 | 0 | 0 |
| | Warbler, Chestnut-sided | Dendroica discolor | DEDI | NR | 1 | 2 | 3 |
| | Warbler, Prairie | | DEPE1 | NR | 1 | 0 | . 0 |
| | Warbler, Yellow | Dendroica petechia | SEMO | NR | 0 | 2 | 0 |
| | Waterthrush, Louisiana | Seiurus motacilla | BOCE | NR | 0 | 0 | 2 |
| | Waxwing, Cedar | Bombycillidae cedrorum | PIVI | NR | 0 | 1 | 0 |
| | Woodpecker, Hairy | Picoides villosus | TRTR | NR | 0 | 0 | 1 |
| | Wren, Winter | Troglodytes troglodytes | AGPH | NR | 0 | 0 | 3 |
| 10 | 6 Blackbird, Red-winged | Agalaius phoeniceus | CACA4 | NR | 1 | 0 | 0 |
| | Cardinal, Northern | Cardinalis cardinalis | DUCA | NR | 1 | 0 | 2 |
| | Catbird, Gray | Dumetella carolinensis | | NR | 1 | | . 2 |
| | Chickadee, Black-capped | Parus atricapillus | PAAT | NR | 0 | 1 | 1 |
| | Cowbird, Brown-headed | Molothrus ater | MOAT | NR | 0 | 2 | 0 |
| | Crow, American | Corvus brachyrhynchos | COBRI | | | 0 | 0 |
| | Flicker, Northern | Colaptes auratus | COAU | NR | 2 | | 0 |
| | Flycatcher, Acadian | Empidonax virescens | EMVI | NR | I | 0 | |
| | Flycatcher, Great Crested | Myiarchus crinitus | MYCR | NR | 0 | 1 | 0 |
| | Gnatcatcher, Blue-gray | Polioptila caerulea | POCA | NR | 0 | 1 | 0 |
| | Goldfinch, American | Cardualis tristis | CATR · | NR | 0 | 2 | 0 |
| | Grackle, Common | Guiscalus guisculs | QUQU | NR | 0 | 1 | 0 |
| | Grosbeak, Rose-breasted | Pheucticus ludovicianus | PHLU | NR | 0 | 1 | . 0 |
| | Jay, Blue | Cyanocitta cristata | CYCR | NR | 1 | 1 | 0 |
| | Kingbird, Eastern | Tyrannus tyrannus | TYTY | NR | 0 | 1 | 1 |
| | Oriole, Northern | Icterus galbula | ICGA | NR | 0 | 0 | 1 |
| | Ovenbird | Seiurus aurocapillus | SEAU | . NR | 0 | 1 | 1 |
| | Pewee, Eastern Wood | Contopus virens | COVII | NR | 0 | 0 | 1 |
| | Redstart, American | Setophaga ruticilla | SERU1 | NR | 2 | 1 | 1 |
| | Tanager, Scarlet | Piranga olivacea | PIOL | NR | 3 | 1 | 3 |
| | Thrush, Hermit | Catharus guttatus | CAGU | NR | . 0 | 0 | 1 |
| | Thrush, Wood | Hylocichla mustelina | HYMU | NR | 0 | 1 | 1 |
| | Titmouse, Tufted | Parus bicolor | PABI | NR | 0 | 0 | 1 |
| | Towhee, Rufous-sided | Pipilo erythrophthalmus | PIER | NR | 1 | 0 | 1 |
| | Veery | Catharus fuscescens | CAFU2 | NR | . 2 | 3 | 2 |
| | Vireo, Red-eyed | Vireo olivaceus | VIOL | . NR | 2 | 2 | 2 |
| | Vireo, Solitary | Vireo solitarius | VISO | NR | 2 | 1 | 1 |
| | Vireo, Yellow-throated | Vireo flavifrons | VIFL | NR | 0 | 1 | 0 |
| | Warbler, Black-and-white | Mniotilta varia | MNVA | NR | 2 | 0 | 1 |
| | | | | NR | 0 | 0 | 1 |

| LOTID | Common Name | Scientific Name | VERTID | 1992 | 1995 | 1996 | 1997 |
|-------|-------------------------------|--|--------|----------|------|------|------|
| LOTIE | Warbler, Black-throated Green | Dendroica virens | DEVI | NR | 3 | . 0 | 2 |
| | Warbler, Chestnut-sided | Dendroica pensylvanica | DEPE | NR | 0 | 0 | 1 |
| | Warbler, Yellow | Dendroica petechia | DEPE1 | NR | 0 | 1 | 1 |
| | Waxwing, Cedar | Bombycillidae cedrorum | BOCE | NR | 0 | 0 | 1 |
| | Woodpecker, Pileated | Dryocopus pileatus | DRPI | NR | 0 | 0 | 1 |
| | Woodpecker, Red-bellied | Melanerpes carolinus | MECA | NR | 0 | 0 | 1 |
| | Yellowthroat, Common | Geothlypis trichas | GETR | NR | 0 | 0 | 2 |
| 100 | 7 Bluebird, Eastern | Sialia sialis | SISI | NR | 0 | 0 | 2 |
| 10 | Catbird, Gray | Dumetella carolinensis | DUCA | NR | 1 | 2 | 1 |
| | Chickadee, Black-capped | Parus atricapillus | PAAT | NR | 1 | 0 | 0 |
| | Cowbird, Brown-headed | Molothrus ater | MOAT | NR | 1 | 1 | 1 |
| | • | Coccyzus erythropthalmus | COER | NR | 0 | 1 | 0 |
| | Cuckoo, Black-billed | Myiarchus crinitus | MYCR | NR | 0 | 2 | 2 |
| | Flycatcher, Great Crested | Cyanocitta cristata | CYCR | NR | 1 | 2 | 1 |
| | Jay, Blue | Icterus galbula | ICGA | NR | 1 | 1 | 2 |
| | Oriole, Northern | Contopus virens | COVII | NR | 2 | 1 | 1 |
| | Pewee, Eastern Wood | • | TUMI | NR | 0 | 1 | 2 |
| | Robin, American | Turdus migratorius | SPPU1 | NR | 2 | 1 | 2 |
| | Sparrow, Field | Spizella pusilla | PIOL | NR | 2 | 1 | 3 |
| | Tanager, Scarlet | Piranga olivacea | | NR | 0 | 1 | I |
| | Thrush, Hermit | Catharus guttatus | CAGU | NR NR | 1 | 0 | 1 |
| | Thrush, Wood | Hylocichla mustelina | HYMU | NR | 1 | 0 | 0 |
| | Titmouse, Tufted | Parus bicolor | PABI | | 3 | 3 | .3 |
| | Towhee, Rufous-sided | Pipilo erythrophthalmus | PIER | NR | 0. | . 0 | 2 |
| | Veery | Catharus fuscescens | CAFU2 | NR | | • | 2 |
| | Vireo, Red-eyed | Vireo olivaceus | VIOL | NR | 1 | 2 | |
| | Warbler, Black-and-white | Mniotilta varia | MNVA | NR | 1 | 2 | 1 |
| | Warbler, Prairie | Dendroica discolor | DEDI | NR | 1 | 1 | 0 |
| | Waterthrush, Louisiana | Seiurus motacilla | SEMO | NR | 1 | 1 | 0 |
| | Waxwing, Cedar | Bombycillidae cedrorum | BOCE | NR | 2 | 1 | 1 |
| | Yellowthroat, Common | Geothlypis trichas | GETR | NR | 0 | 1 | 1 |
| 10 | 8 Catbird, Gray | Dumetella carolinensis | DUCA | NR | 0 | 1 | 0 |
| | Cowbird, Brown-headed | Molothrus ater | MOAT | NR | 1 | 0 | 1 |
| | Flicker, Northern | Colaptes auratus | COAU | NR | 1 | 0 | 0 |
| | Flycatcher, Great Crested | Myiarchus crinitus | MYCR | NR | 2 | 2 | 3 |
| | Grackle, Common | Guiscalus guisculs | QUQU | NR | 1 | 0 | 0 |
| | Jay, Blue | Cyanocitta cristata | CYCR | NR | 2 | .0 | 1 |
| | Nuthatch, White-breasted | Sitta carolinensis | SICA2 | NR | 1 | 0 | 1 |
| | Oriole, Northern | Icterus galbula | ICGA | .NR | 1 | 1 | 1 |
| | Ovenbird | Seiurus aurocapillus | SEAU | NR | 1 | 5 | 0 |
| | Pewee, Eastern Wood | Contopus virens | COVII | NR | 3 | 1 | 1 |
| | Redstart, American | Setophaga ruticilla | SERU1 | NR | 0 | 1 | 1 |
| | Robin, American | Turdus migratorius | TUMI | NR | 1 | 0 | C |
| | Tanager, Scarlet | Piranga olivacea | PIOL | NR | 3 | 2 | 2 |
| | Thrush, Hermit | Catharus guttatus | CAGU | NR | 1 | 0 | (|
| | Thrush, Wood | Hylocichla mustelina | HYMU | NR | . 0 | 1 | (|
| | Titmouse, Tufted | Parus bicolor | PABI | NR | . 0 | 2 | C |
| | Towhee, Rufous-sided | Pipilo erythrophthalmus | PIER | NR | 0 | 1 | 1 |
| | Vireo, Red-eyed | Vireo olivaceus | VIOL | NR | 0 | 1 | (|
| | Vireo, Yellow-throated | Vireo flavifrons | VIFL | NR | 0 | 0 | 1 |
| | viico, i chow-unodicu | · ···································· | | NR | 1 | 0 | 1 |

| PLOTID | Common Name | Scientific Name | VERTID | 1992 | 1995 | 1996 | 1997 |
|--------|------------------------------|---|--------------|------------|------|------|------|
| 20110 | Warbler, Prairie | Dendroica discolor | DEDI | NR | 0 | 2 | 1 |
| | Woodpecker, Hairy | Picoides villosus | PIVI | NR | 0 | 1 | 0 |
| | Woodpecker, Pileated | Dryocopus pileatus | DRPI | NR | 0 | 1 | 0 |
| | Woodpecker, Red-bellied | Melanerpes carolinus | MECA | NR | 1 | 0 | 0 |
| | Yellowthroat, Common | Geothlypis trichas | GETR | NR | 0 | 1 | 0 |
| 100 | Catbird, Gray | Dumetella carolinensis | DUCA | NR | 0 | 0 | 2 |
| 102 | Cowbird, Brown-headed | Molothrus ater | MOAT | NR | 1 | 3 | 2 |
| | Flicker, Northern | Colaptes auratus | COAU | NR | 3 | 1 | 1 |
| | Flycatcher, Great Crested | Myiarchus crinitus | MYCR | NR | 0 | 0 | 0 |
| | Flycatcher, Great Crested | Myiarchus crinitus | MYCR | NR | 2 | 0 | 0 |
| | Gnatcatcher, Blue-gray | Polioptila caerulea | POCA | NR | 2 | 0 | 1 |
| | Grosbeak, Rose-breasted | Pheucticus ludovicianus | PHLU | NR | 3 | 1 | 1 |
| | Jay, Blue | Cyanocitta cristata | CYCR | NR | 0 | 1 | 1 |
| | Nuthatch, White-breasted | Sitta carolinensis | SICA2 | NR | 2 | 1 | 0 |
| | Oriole, Northern | Icterus galbula | ICGA | NR | 2 | 1 | . 3 |
| | Ortole, Northern Ovenbird | Seiurus aurocapillus | SEAU | NR | 2 | 1 | 2 |
| • | Pewee, Eastern Wood | Contopus virens | COVII | NR | 2 | 2 | 2 |
| | | Sayornis phoebe | SAPH | NR | 1 | 0 | . 0 |
| | Phoebe, Eastern | Setophaga ruticilla | SERU1 | NR | 0 | 2 | 3 |
| | Redstart, American | Turdus migratorius | TUMI | NR | 1 | 4 | 3 |
| | Robin, American | • | SPPA2 | NR | 1 | 1 | 0 |
| | Sparrow, Chipping | Spizella passerina | PIOL | NR | 1 | 2 | 2 |
| | Tanager, Scarlet | Piranga olivacea Hylocichla mustelina | HYMU | NR | 2 | 2 | 3 |
| | Thrush, Wood | | PABI | NR | 1 | 1 | C |
| | Titmouse, Tufted | Parus bicolor Pipilo erythrophthalmus | PIER | NR | ı | 0 | 0 |
| | Towhee, Rufous-sided | Catharus fuscescens | CAFU2 | NR | 1 | 3 | 3 |
| | Veery | Vireo olivaceus | VIOL | NR | 1 | 1 | 4 |
| | Vireo, Red-eyed | Vireo olivaceus Vireo flavifrons | VIFL | NR | 0 | 0 | 1 |
| | Vireo, Yellow-throated | Mniotilta varia | MNVA | NR | 1 | 0 | 0 |
| | Warbler, Black-and-white | Mnionna varia Dendroica cerulea | DECE | NR | 0 | 0 | 2 |
| | Warbler, Cerulean | | DEDI | NR | 0 | 0 | 1 |
| | Warbler, Prairie | Dendroica discolor | DEPE1 | NR | 0 | 1 | 1 |
| | Warbler, Yellow | Dendroica petechia | | NR | 0 | 0 | 2 |
| | Waterthrush, Louisiana | Seiurus motacilla | SEMO PIPU | NR | 1 | 0 | 0 |
| | Woodpecker, Downy | Picoides pubescens Picoides villosus | PIVI | NR | 0 | 1 | 1 |
| | Woodpecker, Hairy | | DRPI | NR. | 0 | 0 | 1 |
| | Woodpecker, Pileated | Dryocopus pileatus | MECA | NR | 1 | 0 | 0 |
| | Woodpecker, Red-bellied | Melanerpes carolinus | GETR | NR | 2 | 1 | 3 |
| | Yellowthroat, Common | Geothlypis trichas | CACA4 | NR | 1 | 0 | 1 |
| 110 | Cardinal, Northern | Cardinalis cardinalis Dumetella carolinensis | DUCA | NR | 1 | 0 | 0 |
| | Cathird, Gray | Molothrus ater | MOAT | NR | 1 | 0 | 4 |
| | Cowbird, Brown-headed | Corvus brachyrhynchos | COBRI | NR | 0 | 0 | 1 |
| | Crow, American | Colaptes auratus | COAU | NR | 1 | 1 | 1 |
| | Flicker, Northern | Polioptila caerulea | POCA | NR | 0 | 1 | 1 |
| | Gnatcatcher, Blue-gray | Cardualis tristis | CATR | NR | . 1 | 0 | 0 |
| | Goldfinch, American | Guiscalus guisculs | QUQU | NR | 3 | 0. | 1 |
| | Grackle, Common | • | PHLU | NR | 0 | 2 | .1 |
| | Grosbeak, Rose-breasted | Pheucticus ludovicianus | | | 1 | 0 | |
| | Hawk, Red-tailed | Buteo jamaicensis | BUJA | NR · ND | | | . 3 |
| | Jay, Blue | Cyanocitta cristata | CYCR | NR | 0 | 0 | |
| | Nuthatch, White-breasted | Sitta carolinensis | SICA2 | NR | 1 | I | 5 |

| LOTID | Common Name | Scientific Name | VERTID | 1992 | 1995 | 1996 | 1997 |
|-------|------------------------------------|-------------------------|--------|-------|------|------|------|
| 20110 | Oriole, Northern | Icterus galbula | ICGA | NR | 3 | 2 | 4 |
| | Ovenbird | Seiurus aurocapillus | SEAU | NR | 1 | 1 | 2 |
| | Pewee, Eastern Wood | Contopus virens | COVII | NR | 2 | 1 | 3 |
| | Redstart, American | Setophaga ruticilla | SERU1 | NR | 0 | 3 | 3 |
| | Robin, American | Turdus migratorius | TUMI | NR | 3 | 4 | 4 |
| | Sparrow, Chipping | Spizella passerina | SPPA2 | NR | 4 | 2 | 1 |
| | Tanager, Scarlet | Piranga olivacea | PIOL | NR | 3 | 3 | : |
| | Thrush, Wood | Hylocichla mustelina | HYMU | NR | 0 | 1 | |
| | Titmouse, Tufted | Parus bicolor | PABI | NR | 1 | 0 | |
| | Towhee, Rufous-sided | Pipilo erythrophthalmus | PIER | NR | 1 | 1 | |
| | Turkey, Wild | Meleagris gallopavo | MEGA | NR | 0 | . 1 | |
| | • | Catharus fuscescens | CAFU2 | NR | 0 | 0 | |
| | Veery | Vireo olivaceus | VIOL | NR | 1 | 1 | |
| | Vireo, Red-eyed | Vireo flavifrons | VIFL | NR | 1 | 2 | |
| | Vireo, Yellow-throated | Dendroica cerulea | DECE | NR | 1 | 2 | |
| | Warbler, Cerulean | Wilsonia citrina | WICI | NR | 1 | 4 | |
| | Warbler, Hooded | Dendroica petechia | DEPE1 | NR | 0 | 1 | |
| | Warbler, Yellow | Scolopax minor | SCMI | NR | 1 | 0 | |
| | Woodcock, American | Picoides pubescens | PIPU | NR | 0 | 1 | |
| | Woodpecker, Downy | Picoides villosus | PIVI | NR | 0 | 1 | |
| 11 | Woodpecker, Hairy 1 Catbird, Gray | Dumetella carolinensis | DUCA | NR | 0 | 0 | |
| 11 | | Parus atricapillus | PAAT | NR | 0 | 1 | |
| | Chickadee, Black-capped | Molothrus ater | MOAT | NR | 1 | 1 | |
| | Cowbird, Brown-headed | Corvus brachyrhynchos | COBR1 | NR | 2 | 4 | |
| | Crow, American | Colaptes auratus | COAU | NR | Ó | 3 | |
| | Flicker, Northern | Myiarchus crinitus | MYCR | NR | 2 | 2 | |
| | Flycatcher, Great Crested | Polioptila caerulea | POCA | NR | 2 | 3 | |
| | Gnatcatcher, Blue-gray | Branta canadensis | BRCA1 | NR | 0 | 0 | |
| | Goose, Canada | | QUQU | NR | 0 | 1 | |
| | Grackle, Common | Guiscalus guisculs | ARHE | NR NR | 0 | 0 | |
| | Heron, Great Blue | Ardea herodias | ICGA | NR | 1 | 1 | |
| | Oriole, Northern | Icterus galbula | COVII | NR | 2 | . 1 | |
| | Pewee, Eastern Wood | Contopus virens | | NR | . 1 | 0 | |
| | Phoebe, Eastern | Sayornis phoebe | SAPH | NR | 0 | 0 | |
| | Robin, American | Turdus migratorius | TUMI | NR | 0 | 0 | |
| | Sparrow, Chipping | Spizella passerina | SPPA2 | | 2 | 1 | |
| | Tanager, Scarlet | Piranga olivacea | PIOL | NR | | 0 | |
| | Thrush, Hermit | Catharus guttatus | CAGU | NR | 1 | 3 | |
| | Titmouse, Tufted | Parus bicolor | PABI | NR | 1 | 0 | |
| | Towhee, Rufous-sided | Pipilo erythrophthalmus | PIER | NR | 0 | | |
| | Vireo, Red-eyed | Vireo olivaceus | VIOL | NR | 1 | 1 | |
| | Vireo, Warbling | Vireo gilvus | VIGI | NR | 1 | 0 | |
| | Vireo, Yellow-throated | Vireo flavifrons | VIFL | NR | 1 | 1 | |
| | Warbler, Black-and-white | Mniotilta varia | MNVA | NR | 1 | 2 | |
| | Warbler, Yellow | Dendroica petechia | DEPE1 | NR | 0 | 0 | |
| | Waterthrush, Louisiana | Seiurus motacilla | SEMO | NR | . 0 | 1 | |
| | Waxwing, Cedar | Bombycillidae cedrorum | BOCE | NR | 0 | 0 | |
| | Woodpecker, Downy | Picoides pubescens | PIPU | NR | 2 | 0 | |

Appendix D: Guild Associations for Each West Point Bird Species

Table D. Guild association for each West Point bird species that occurs on special use plots.

| | | | NEO | | | | | | TATION I II OUTS |
|--------------------------------|--------------------------|-------|--------|--------------------|-----------|---------------------|-----------|-----------------------|------------------|
| COMMON NAME | SCIENTIFIC NAME | CODE | STATUS | NEST LOCATION | NEST TYPE | NEST TYPE FOOD TYPE | SUBSTRATE | TECHNIQUE | GENEKAL HABITAT |
| Blackhird Red-winged | Agelaius phoeniceus | AGPH | В | Reed | Cup | Insects | Ground | Ground Gleaner | Swamp/Marsh |
| Disabird Rectorn | Sialia sialis | SISI | B | Snag | Cavity | Insects | Air | Hawker | Forest Edge |
| Diucollu, Lasterii Debeliak | Dalichouvy oryzivorus | DOOR | < | Ground | Cup | Insects | Ground | Ground Gleaner | Grassland |
| Boothing Bunting Indian | Passerina cvaned | PACY | < | Shrub | Cup | Insects | Foliage | Foliage Gleaner | Forest Edge |
| Cardinal Northern | Cardinalis cardinalis | CACA4 | × | Shrub | Cup | Insects | Ground | Ground Gleaner | Shrubland |
| Cathird Grav | Dumetella carolinensis | DUCA | 4 | Shrub | Cup | Insects | Ground | Ground Gleaner | Shrubland |
| Chickadee Black-capped | Parus atricapillus | PAAT | ~ | Woody Lower Canopy | Cavity | Insects | Foliage | Foliage Gleaner | Forest |
| Cowhird Brown-headed | Molothrus afer | MOAT | В | Woody Upper Canopy | Parasitic | Insects | Ground | Ground Gleaner | Forest Edge |
| Cremer Brown | Certhia americana | CEAM | В | Woody Upper Canopy | Cup | Insects | Bark | Bark Gleaner | Forest |
| Crow American | Corvus brachyrhynchos | COBRI | ~ | Woody Upper Canopy | Cup | Insects | Ground | Scavenger | Forest |
| Crow Fish | Corvus ossifragus | coos | × | Woody Upper Canopy | Cup | Aquatic Inverts | Ground | Scavenger | Shoreline |
| Cuckoo Black-hilled | Coccyzus erythropthalmus | COER | ∢ | Woody Lower Canopy | Platform | Insects | Foliage | Scavenger | Forest |
| Cuckoo Yellow-billed | Coccyzus americanus | COAM | < | Woody Lower Canopy | Platform | Insects | Foliage | Foliage Gleaner | Forest |
| Dove Mourning | Zenaida macroura | ZEMA | В | Woody Lower Canopy | Saucer | Seeds | Ground | Ground Gleaner | Forest Edge |
| Flicker, Northem | Colaptes auratus | COAU | В | Snag | Cavity | Insects | Ground | Ground Gleaner | Forest |
| Flycatcher, Acadian | Empidonax virescens | EMVI | V | Woody Lower Canopy | Cup | Insects | Air | Hawker | Riparian |
| Flycatcher, Alder | Empidonax alnorum | EMAL | 4 | Shrub | Cup | Insects | Air | Hawker | Swamp/Marsh |
| Hycatcher, Great-crested | Myiarchus crinitus | MYCR | ∢ | Woody Upper Canopy | Cavity | Insects | Air | Hawker | Forest Edge |
| Gnatcatcher, Blue-gray | Polioptila caerulea | POCA | ∢ | Woody Lower Canopy | Cup | Insects | Foliage | Foliage Gleaner | Forest |
| Goldfinch, American | Carduelis tristis | CATR | В | Shrub | Cup | Seeds | Foliage | Foliage Gleaner | Grassland |
| Googe Canada | Branta canadensis | BRCAI | ~ | Ground | Scrape | Greens | Water | Surface Dips | Swamp/Marsh |
| Grackle Common | Ouiscalus quiscula | ONON | ~ | Woody Lower Canopy | Cup | Insects | Ground | Ground Gleaner | Grassland |
| Grosbeak Rose-breasted | Pheucticus ludovicianus | PHLU | 4 | Woody Lower Canopy | Cup | Insects | Foliage | Foliage Gleaner | Forest |
| Grouse, Ruffed | Bonasa umbellus | BOUM | × | Ground | Scrape | Greens | Foliage | Foliage Browser | Forest |
| Hawk Broad-winged | Buteo platypterus | BUPL | ٧ | Woody Upper Canopy | Platform | Small Mammals | Ground | Swooper | Forest |
| Hawk. Red-tailed | Buteo jamaicensis | BUJA | В | Woody Upper Canopy | Platform | Small Mammals | Ground | High Patrol | Forest |
| Heron Great Blue | Ardea herodias | ARHE | × | Woody Upper Canopy | Platform | Fish | Water | Ambusher | Swamp/Marsh |
| for Rive | Cvanocitta cristata | CYCR | ~ | Woody Lower Canopy | Cup | Insects | Ground | Ground Gleaner | Forest |
| Killdeer | Charadrius vociferus | CHVO | B | Ground | Scrape | Insects . | Ground | Ground Gleaner | Shoreline |
| Kinohird Fastern | Tyrannus tyrannus | TYTY | < | Woody Lower Canopy | Cup | Insects | Air | Hawker | Riparian |
| Mallard | Anas platyrhynchos | ANPL | × | Ground | Scrape | Seeds | Water | Dabbler | Freshwater |
| Meadowlark Eastern | Sturnella magna | STMA2 | æ | Ground | Cup | Insects | Ground | Ground Gleaner | Grassland |
| Mockingbird, Northern | Mimus polyglottos | MIPO | B | Shrub | Cup | Insects | Ground | Ground Gleaner | Shrubland |
| | | | | Dage D. 1 | | | | | |

Page D-1

| COMMON NAME | SCIENTIFIC NAME | LCTA | NEO STATUS | NEST LOCATION | NEST TYPE | NEST TYPE FOOD TYPE | SUBSTRATE | TECHNIQUE | GENERAL HABITAT |
|-------------------------------|-------------------------|-------|---------------|--------------------|-----------|---------------------|-----------|-----------------------|-----------------|
| Nuthatch, White-breasted | Sitta carolinensis | SICA2 | R | Woody Upper Canopy | Cavity | Insects | Bark | Bark Gleaner | Forest |
| Oriole, Northem | Icterus galbula | ICGA | ∢ | Woody Upper Canopy | Pendant | Insects | Foliage | Foliage Gleaner | Forest Edge |
| Ovenbird | Seiurus aurocapillus | SEAU | ∢ | Ground | Oven | Insects | Ground | Ground Gleaner | Forest |
| Owl, Barred | Strix varia | STVA | 24 | Snag | Cavity | Small Mammals | Ground | Low Patrol | Forest |
| Owl, Great Horned | Bubo virginianus | BUVI | × | Woody Upper Canopy | Abandoned | Small Mammals | Ground | Swooper | Forest |
| Parula, Northern | Parula americana | PAAM | ∢ | Woody Upper Canopy | Pendant | Insects | Foliage | Foliage Gleaner | Forest |
| Pewee, Eastern Wood | Contopus virens | COVII | 4 | Woody Upper Canopy | Cup | Insects | Air | Hawker | Forest |
| Phoebe, Eastern | Sayornis phoebe | SAPH | В | Man-made Structure | Cup | Insects | Air | Hawker | Riparian |
| Redstart, American | Setophaga ruticilla | SERUI | 4 | Woody Lower Canopy | Cup | Insects | Air | Hover Gleaner | Forest |
| Robin, American | Turdus migratorius | TUMI | В | Woody Lower Canopy | Cup | Insects | Ground | Ground Gleaner | Forest |
| Sparrow, Chipping | Spizella passerina | SPPA2 | 4 | Woody Lower Canopy | Cup | Insects | Ground | Ground Gleaner | Forest |
| Sparrow, Field | Spizella pusilla | SPPUI | × | Ground | Cup | Insects | Ground | Ground Gleaner | Shrubland |
| Sparrow, Song | Melospiza melodia | MEME | 8 | Ground | Cup | Insects | Ground | Ground Gleaner | Riparian |
| Starling, European | Sturnus vulgaris | STVU | × | Woody Upper Canopy | Cavity | Insects | Ground | Ground Gleaner | Grassland |
| Swallow, Barn | Hirundo rustica | HIRU | 4 | Man-made Structure | Cup | Insects | Air | Aerial Foraging | Freshwater |
| Tanager, Scarlet | Piranga olivacea | PIOL | ∢ | Woody Upper Canopy | Saucer | Insects | Air | Hover Gleaner | Forest |
| Thrush, Hermit | Catharus guttatus | CAGU | В | Ground | Cup | Insects | Ground | Ground Gleaner | Forest |
| Thrush, Swainson's | Catharus ustulatus | CAUS | ∢ | Shrub | Cup | Insects | Foliage | Foliage Gleaner | Forest |
| Thrush, Wood | Hylocichla mustelina | HYMU | ∢ | Woody Upper Canopy | Cup | Insects | Ground | Ground Gleaner | Forest |
| Titmouse, Tufted | Parus bicolor | PABI | 24 | Woody Upper Canopy | Cavity | Insects | Foliage | Foliage Gleaner | Forest |
| Towhee, Rufous-sided | Pipilo erythrophthalmus | PIER | £ | Ground | Cup | Insects | Ground | Ground Gleaner | Forest Edge |
| Turkey, Wild | Meleagris gallopavo | MEGA | 2 | Ground | Scrape | Seeds | Ground | Ground Gleaner | Forest |
| Veery | Catharus fuscescens | CAFU2 | ∢ | Ground | Cup | Insects | Ground | Ground Gleaner | Forest |
| Vireo, Red-eyed | Vireo olivaceus | VIOL | 4 | Shrub | Cup | Insects | Air | Hover Gleaner | Forest |
| Vireo, Solitary | Vireo solitarius | VISO | 4 | Woody Lower Canopy | Cup | Insects | Foliage | Foliage Gleaner | Forest |
| Vireo, Warbling | Vireo gilvus | VIGI | ٧ | Woody Upper Canopy | Cup | Insects | Foliage | Foliage Gleaner | Forest |
| Vireo, Yellow-throated | Vireo flavifrons | VIFL | A | Woody Upper Canopy | Cup | Insects | Foliage | Foliage Gleaner | Forest |
| Warbler, Black-and-white | Mniotilta varia | MNVA | A | Ground | Cup | Insects | Bark | Bark Gleaner | Forest |
| Warbler, Blackburnian | Dendroica fusca | DEFU | ¥ | Woody Upper Canopy | Cup | Insects | Foliage | Foliage Gleaner | Forest |
| Warbler, Black-throated Green | Dendroica virens | DEVI | ¥ | Woody Upper Canopy | Cup | Insects . | Foliage | Foliage Gleaner | Forest |
| Warbler, Blue-winged | Vermivora pinus | VEPI | * | Ground | Cup | Insects | Foliage | Foliage Gleaner | Shrubland |
| Warbler, Canada | Wilsonia canadensis | WICA | V | Ground | Cup | Insects | Air | Hover Gleaner | Forest |
| Warbler, Cerulean | Dendroica cerulea | DECE | ∢ | Woody Upper Canopy | Cup | Insects | Foliage | Foliage Gleaner | Forest |
| Warbler, Chestnut-sided | Dendroica pensylvanica | DEPE | ¥ | Shrub | Cup | Insects | Foliage | Foliage Gleaner | Shrubland |
| | | | | | | | | | |

| | | LCTA | NEO | | | | | | |
|-------------------------|-------------------------|--------------|--------|----------------------|-----------|---------------------|---------------------|-----------------|-----------------|
| COMMON NAME | SCIENTIFIC NAME | CODE | STATUS | STATUS NEST LOCATION | NEST TYPE | NEST TYPE FOOD TYPE | SUBSTRATE TECHNIQUE | TECHNIQUE | GENERAL HABITAT |
| Warhler, Golden-winged | Vermivora chrysoptera | VECH | ٨ | Ground | Cup | Insects | Foliage | Foliage Gleaner | Grassland |
| Warhler Hooded | Wilsonia citrina | WICI | 4 | Shrub | Cup | Insects | Foliage | Foliage Gleaner | Forest |
| Warhler Prairie | Dendroica discolor | DEDI | ∢ | Shrub | Cup | Insects | Foliage | Foliage Gleaner | Shrubland |
| Warbler, Tennessee | Vermivora peregrina | VEPE | V | Ground | Cup | Insects | Foliage | Foliage Gleaner | Swamp/Marsh |
| Warbler, Yellow | Dendroica petechia | DEPE1 | V | Shrub | Cup | Insects | Foliage | Foliage Gleaner | Riparian |
| Warbler, Yellow-rumped | Dendroica coronata | DECO | В | Woody Upper Canopy | Cup | Insects | Foliage | Foliage Gleaner | Forest |
| Waterthrush. Louisiana | Seiurus motacilla | SEMO | V | Ground | Cup | Aquatic Inverts | Ground | Ground Gleaner | Riparian |
| Waxwing Cedar | Bombycilla cedrorum | BOCE | 8 | Woody Upper Canopy | Cup | Fruit | Foliage | Foliage Gleaner | Forest |
| Woodcock. American | Scolopax minor | SCMI | × | Ground | Scrape | Insects | Ground | Prober | Swamp/Marsh |
| Woodnecker, Downy | Picoides pubescens | PIPU | × | Snag | Cavity | Insects | Bark | Bark Gleaner | Forest |
| Woodnecker, Hairy | Picoides villosus | PIVI | × | Woody Upper Canopy | Cavity | Insects | Bark | Bark Gleaner | Forest |
| Woodpecker, Pileated | Dryocopus pileatus | DRPI | × | Snag | Cavity | Insects | Bark | Bark Gleaner | Forest |
| Woodnecker, Red-bellied | Melanerpes carolinus | MECA | × | Snag | Cavity | Insects | Bark | Bark Gleaner | Forest |
| Wren House | Troglodytes aedon | TRAE | 4 | Woody Lower Canopy | Cavity | Insects | Ground | Ground Gleaner | Forest |
| Wren. Winter | Troglodytes troglodytes | TRTR | œ | Snag | Cavity | Insects | Ground | Ground Gleaner | Forest |
| Yellowthroat, Common | Geothlypis trichas | GETR | ∢ | Shrub | Cup | Insects | Foliage | Foliage Gleaner | Forest Edge |

Appendix E: West Point Summary Information

Installation Summary

Table E1. General information for West Point special use plot bird data.

| Table E1. Total Plots | Site | FO | Total Spp | Site Spp | FO | Total | Site | FO Birds |
|-----------------------|------|----|--------------|-------------|----|-------|-------|-------------|
| 11 | 11 | 7 | 88 | 85 | 13 | 1,184 | 1,137 | 47 |

Table E2. Installation information for West Point special use plots, by year.

| Year | Total Plots | Site Plots | FO Plots | Total Spp | Site Spp F | | Total | Site Birds | FO Birds | Ave Tot Birds | Ave Site Birds | Ave FO Birds |
|------|----------------|---------------|-------------|--------------|---------------|---|-------|---------------|-------------|------------------|-------------------|-----------------|
| 1992 | 2 | 2 | 1 | 34 | 33 | 1 | 105 | 104 | 1 | 51.00 | 50.50 | 0.50 |
| 1992 | 10 | 10 | 2 | 65 | 63 | 4 | 292 | 288 | 4 | 28.50 | 28.10 | 0.40 |
| 1995 | 10 | 10 | 4 | 55 | 54 | 5 | 297 | 281 | 16 | 28.50 | 26.90 | 1.60 |
| 1990 | 10 | 10 | 4 | 68 | 67 | 3 | 490 | 464 | 26 | 48.20 | 45.60 | 2.60 |

Table F3 Installation information for West Point special use plots, by period.

| Year | Period | Total Plots | Site Plots | FO Plots | Total Spp | Site Spp F | О Ѕрр | Total Birds | Site Birds | FO Birds | Ave Tot Birds | Ave Site Birds | Ave FO Birds |
|-------|--------|----------------|---------------|-------------|--------------|---------------|-------|----------------|---------------|-------------|------------------|-------------------|-----------------|
| 1992 | AM | 2 | 2 | 0 | 30 | 30 | 0 | 55 | 55 | 0 | 26.00 | 26.00 | . 0 |
| 1772 | PM | 2 | 2 | 1 | 19 | 18 | 1 | 50 | 49 | 1 | 25.00 | 24.50 | 0.50 |
| 1995 | AM | 10 | 10 | 1 | 55 | 54 | 2 | 152 | 150 | 2 | 14.70 | 14.50 | 0.20 |
| 1,,,, | PM | 10 | 10 | 2 | 51 | 49 | 2 | 140 | 138 | 2. | 13.80 | 13.60 | 0.20 |
| 1996 | AM | 10 | 10 | 0 | 52 | 52 | 0 | 162 | 162 | 0 . | 15.30 | 15.30 | 0 |
| 1,,,, | PM | 10 | 10 | 4 | 44 | 41 | 5 | 135 | 119 | 16 | 13.20 | 11.60 | 1.60 |
| 1997 | AM | 10 | 10 | 1 | 60 | 59 | 2 | 273 | 250 | 23 | 26.70 | 24.40 | 2.30 |
| 1,,,, | PM | 10 | 10 | 3 | 54 | 52 | 2 | 217 | 214 | 3 | 21.50 | 21.20 | 0.30 |

Installation Summary

Table E4. Installation information for West Point special use plots, by transect.

| Year | Transect | Total Plots | Site Plots | Total Spp | Site Spp | Total Birds | Site Birds | Ave Tot Birds | Ave Site Birds |
|------|--------------------------|----------------|------------|-----------|----------|----------------|------------|------------------|-------------------|
| | | 2 | 2 | 20 | 20 | 50 | 50 | 25.00 | 25.00 |
| 199 | 2 Line Out | 2 | 2 | 14 | 14 | 22 | 22 | 10.50 | 10.50 |
| | End Point Line In | 2 | 2 | 17 | 17 | 32 | 32 | 15.00 | 15.00 |
| | | 10 | 10 | 49 | 49 | 151 | 151 | 14.80 | 14.80 |
| 199 | 95 Line Out End Point | 10 | 10 | 34 | 34 | 83 | 83 | 7.90 | 7.90 |
| | Line In | 10 | 10 | 33 | 33 | 54 | 54 | 5.40 | 5.40 |
| 100 | 96 Line Out | 10 | 10 | 40 | 40 | 144 | 144 | 13.80 | 13.80 |
| 195 | End Point | 10 | 10 | 37 | 37 | 94 | 94 | 9.10 | 9.10 |
| | Line In | 10 | 10 | 27 | 27 | 43 | . 43 | 4.00 | 4.00 |
| 100 | 97 Line Out | 10 | 10 | 52 | 52 | 254 | 254 | 25.20 | 25.20 |
| 193 | End Point | 10 | 10 | 48 | 48 | 133 | 133 | 12.80 | 12.80 |
| | Line In | 10 | 10 | 39 | 39 | 77 | 77 | 7.60 | 7.60 |

Installation Summary

| | | | · . C | for West | Point special | use plots. | by mated status. |
|----------|---|----------------|--------------|----------|---------------|------------|---------------------|
| PR 3 3 1 | T | T -4 - 11 - 42 | information. | for West | Point Special | nze prota- | DA HITTECOT Demande |

| Table E5. Installatio | Year | Total Plots | Site Plots | FO Plots | Total Spp | Site Spp | FO Spp | Total Birds | Site Birds | FO Birds | Ave Tot Birds | Ave Site Birds | Ave FO Birds |
|-----------------------|------|----------------|---------------|-------------|--------------|-------------|-----------|----------------|---------------|-------------|------------------|-------------------|-----------------|
| | 1992 | 2 | 2 | 0 | 30 | 30 | 0 | 59 | 59 | 0 | 29.50 | 29.50 | 0 |
| Singing Male | 1995 | 10 | 10 | 2 | 61 | 58 | 4 | 254 | 250 | 4 | 25.40 | 25.00 | 0 |
| | 1996 | 10 | 10 | 1 | 50 | 50 | 1 | 242 | 240 | 2 | 24.20 | 24.00 | 0 |
| | 1997 | 10 | 10 | 0 | 59 | 59 | 0 | 331 | 331 | 0 | 33.10 | 33.10 | 0 |
| Female Only | 1992 | 2 | 1 | 0 | 1 | 1 | 0 | 2 | 2 | 0 | 1.00 | 1.00 | 0 |
| remaic omy | 1995 | 10 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0.10 | 0.10 | 0 |
| | 1997 | 10 | 2 | 0 | 2 | 2 | 0 | 2 | 2 | 0 | 0.20 | 0.20 | 0 |
| Flock | 1996 | 10 | 0 | 1 | 2 | 0 | 2 | 12 | 0 | 12 | 1.20 | 0 | 1.20 |
| FIOCK | 1997 | 10 | 0 | 1 | 1 | 0 | 1 | 21 | 0 | 21 | 2.10 | 0 | 2.10 |
| Nonsinging Male | 1992 | 2 | 1 | 0 | 1 | 1 | 0 | 7 | 7 | . 0 | 3.50 | 3.50 | 0 |
| Housinging water | 1995 | 10 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0.10 | 0.10 | 0 |
| | 1996 | 10 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0.10 | 0.10 | . 0 |
| | 1997 | 10 | 3 | 0 | 4 | 4 | 0 | 4 | 4 | 0 | 0.40 | 0.40 | 0 |
| Not Recorded | 1997 | 10 | 3 | 0 | . 9 | 9 | 0 | 75 | 75 | 0 | 7.50 | - 7.50 | 0 |
| Adult Male/Female | 1992 | 2 | 2 | 0 | 3 | 3 | 0 | 3 | 3 | 0 | 1.50 | 1.50 | 0 |
| | 1995 | 10 | 5 | 0 | 7 | 7 | 0 | 7 | 7 | 0 | 0.70 | 0.70 | 0 |
| | 1996 | 10 | 8 | 0 | 10 | 10 | 0 | 12 | 12 | 0 | 1.20 | 1.20 | 0 |
| | 1997 | 10 | 5 | 0 | 7 | 7 | 0 | 8 | 8 | 0 | 0.80 | 0.80 | 0 |
| Unknown Sex | 1992 | 2 | 2 | 1 | 7 | 6 | 1 | 31 | 30 | 1 | 15.50 | 15.00 | 0.50 |
| | 1995 | 10 | 8 | 0 | 17 | 17 | 0 | 22 | 22 | 0 | 2.20 | 2.20 | 0 |
| | 1996 | 10 | 7 | 2 | 14 | 12 | 2 | 18 | 16 | 2 | 1.80 | 1.60 | 0.20 |
| | 1997 | 10 | 9 | 4 | 16 | 14 | 2 | 41 | 36 | 5 | 4.10 | 3.60 | 0.50 |

Appendix F: West Point Summary Information by Vegetation Type

Table F1. Vegetation types for West Point special use plots that were used in the analyses.

| Plot | Vegetation Type |
|------|----------------------------------|
| 101 | Successional Old Field |
| 102 | Successional Old Field |
| 103 | Appalachian Oak-Hickory |
| 104 | Appalachian Oak-Hickory |
| 105 | Hemlock-Hardwood Swamp |
| 106 | Hemlock-Northern Hardwood Forest |
| 107 | Burn Barren |
| 108 | Appalachian Oak-Hickory |
| 109 | Successional Old Field |
| 110 | Appalachian Oak-Hickory |
| 111 | Appalachian Oak-Hickory |

The Factorial Support for West Point special use plots, by vegetation type

| Table F2. Installation summary for West Foint special us. Vegetation Type | Total Plots | Site Plots | FO Plots | Total Spp | Site Spp | FO Spp | Total Birds | Site Birds | FO Birds |
|--|----------------|---------------|-------------|--------------|-------------|-----------|----------------|---------------|-------------|
| | 1 | 1 | 1 | 25 | 23 | 2 | 99 | 76 | 23 |
| BURN BARREN | 1 | 1 | 0 | 36 | 36 | 0 | 93 | 93 | 0 |
| HEMLOCK-HARDWOOD SWAMP | 1 | 1 | 1 | 39 | 38 | 1 | 86 | 85 | 1 |
| HEMLOCK-NORTHERN HARDWOOD FOREST | 5 | 5 | 3 | 60 | 58 | 4 | 456 | 452 | 4 |
| OAK-HICKORY SUCCESSIONAL OLD FIELD | 3 | 3 | 2 | 64 | 61 | 8 | 450 | 431 | 19 |

| Table F3. Vegetation types for | West Poin | t special Total | use plot Site | s, by yea | ar. Total | Site | FO | Total | Site | FO | Ave Tot | Ave Site | Ave FO |
|--------------------------------|--------------|--------------------|------------------|-----------|--------------|------|-----|-------|-------|-------|---------|----------|--------|
| Vegetation Type | Year | Plots | Plots | Plots | Spp | Spp | Spp | Birds | Birds | Birds | Birds | Birds | Birds |
| BURN BARREN | 1995 | 1 | 1 | 0 | 16 | 16 | 0 | 22 | 22 | 0 | 22.00 | 22.00 | 0 |
| BUKN DARREN | 1996 | 1 | 1 | 0 | 18 | 18 | 0 | 25 | 25 | 0 | 25.00 | 25.00 | C |
| | 1997 | 1 | 1 | 1 | 20 | 18 | 2 | 52 | 29 | 23 | 52.00 | 29.00 | 23.00 |
| TO CHARDWOOD | 1995 | 1 | 1 | 0 | 22 | 22 | 0 | 30 | 30 | 0 | 29.00 | 29.00 | C |
| HEMLOCK-HARDWOOD | 1996 | 1 | 1 | 0 | 15 | 15 | 0 | 26 | 26 | 0 | 25.00 | 25.00 | C |
| SWAMP | 1997 | 1 | 1 | 0 | 24 | 24 | 0 | 37 | 37 | 0 | 37.00 | 37.00 | C |
| TO SEL MODELLEDN | 1995 | | | 1 | 15 | 14 | 1 | 25 | 24 | . 1 | 25.00 | 24.00 | 1.00 |
| HEMLOCK-NORTHERN | 1996 | 1 | | 0 | 20 | 20 | 0 | 25 | 25 | 0 | 24.00 | 24.00 | (|
| HARDWOOD | 1997 | 1 | , | 0 | 26 | 26 | 0 | 36 | 36 | 0 | 36.00 | 36.00 | (|
| - W WOYODY | 1995 | 5 | 5 | 0 | 42 | 42 | 0 | 133 | 133 | 0 | . 25.80 | 25.80 | (|
| OAK-HICKORY | 1996 | 5 | 5 | 2 | 41 | 39 | 2 | 142 | 140 | 2 | 27.20 | 26.80 | 0.40 |
| | 1990 | 5 | 5 | 2 | 45 | 44 | 2 | 181 | 179 | 2 | 35.00 | 34.60 | 0.40 |
| THE PARTY OF PETER D | 1997 | 2 | 2 | 1 | 34 | 33 | 1 | 105 | 104 | 1 | 51.00 | 50.50 | 0.50 |
| SUCCESSIONAL OLD FIELD | 1992 | 2 | 2 | 1 | 40 | 38 | 3 | 82 | 79 | 3 | 40.00 | 38.50 | 1.50 |
| | | 2 | 2 | 2 | 35 | 33 | 3 | 79 | 65 | 14 | 37.50 | 30.50 | 7.00 |
| | 1996 1997 | 2 | 2 | 1 | 49 | 48 | 1 | 184 | 183 | 1 | 91.00 | 90.50 | 0.50 |

| Table E4 | Vegetation types for | West Point | special use | plots, b | y peri | od. |
|----------|----------------------|------------|-------------|----------|--------|-----|
| | | | | | | |

| Table F4. Vegetation type | | | Total | Site | FO | Lotai | Site | FO | Total Birds | Site Birds | FO Birds | Ave Tot Birds | Ave Site Birds | Ave FC Bird |
|---------------------------|------|--------|-------|-------|-------|-------|------|-----|----------------|---------------|-------------|------------------|-------------------|----------------|
| Vegetation Type | Year | Period | Plots | Plots | Plots | Spp | Spp | Spp | | | 0 | 14.00 | 14.00 | |
| BURN BARREN | 1995 | 5 AM | 1 | 1 | . 0 | 14 | 14 | 0 | 14 | 14 | | 8.00 | 8.00 | |
| | | PM | 1 | 1 | 0 | 6 | 6 | 0. | 8 | 8 | 0 | 18.00 | 18.00 | |
| | 1996 | 5 AM | 1 | 1 | 0 | 16 | 16 | 0 | 18 | 18 | 0 | | | • |
| | | PM | 1 | 1 | 0 | 8 | 7 | 0 | 7 | 7 | 0 | 7.00 | 7.00 | 23.0 |
| | 199 | 7 AM | 1 | 1 | 1 | 15 | 13 | 2 | 37 | 14 | 23 | 37.00 | 14.00 | |
| | | PM | 1 | 1 | 0 | 12 | 12 | 0 | 15 | 15 | 0 | 15.00 | 15.00 | |
| HEMLOCK-HARDWOOD | 199 | 5 AM | 1 | 1 | 0 | 15 | 15 | 0 | 17 | 17 | 0 | 16.00 | 16.00 | |
| SWAMP | | PM | 1 | 1 | 0 | 12 | 12 | 0 | . 13 | 13 | 0 | 13.00 | 13.00 | |
| J W Altin | 199 | 6 AM | 1 | 1 | 0 | 13 | 13 | 0 | 13 | 13 | 0 | 13.00 | 13.00 | |
| | | PM | 1 | 1 | 0 | 10 | 10 | 0 | 13 | 13 | 0 | 12.00 | 12.00 | |
| | 199 | 7 AM | 1 | 1 | 0 | 12 | 12 | 0 | 15 | 15 | 0 | 15.00 | 15.00 | |
| | .,, | PM | 1 | 1 | 0 | 20 | 20 | 0 | 22 | 22 | 0 | 22.00 | 22.00 | |
| HEMLOCK-NORTHERN | 100 | 5 AM | 1 | 1 | 0 | 11 | 11 | 0 | 11 | 11 | 0 | 11.00 | 11.00 | |
| | 177. | PM | 1 | 1 | 1 | 11 | 10 | i | 14 | 13 | 1 | 14.00 | 13.00 | 1.0 |
| IARDWOOD FOREST | 100 | 6 AM | 1 | 1 | 0 | 12 | 12 | 0 | 13 | 13 | 0 | 12.00 | 12.00 | |
| | 177 | PM | 1 | 1 | 0 | 11 | 11 | 0 | 12 | 12 | 0 | 12.00 | 12.00 | |
| | 100 | 7 AM | 1 | 1 | 0 | 17 | 17 | 0 | · 18 | 18 | 0 | 18.00 | 18.00 | |
| | 199 | PM | 1 | 1 | 0 | 16 | 16 | 0 | 18 | 18 | 0 | 18.00 | 18.00 | |
| O L W HIGWORN | 100 | 5 AM | 5 | 5 | 0 | 31 | 31 | 0 | 61 | 61 | . 0 | 11.80 | 11.80 | |
| OAK-HICKORY | 199. | PM | 5 | 5 | 0 | 29 | 29 | 0 | 72 | 72 | 0 | 14.00 | 14.00 | |
| | 100 | 6 AM | 5 | 5 | 0 | 34 | 34 | 0 | 77 | 77 | 0 | 14.60 | 14.60 | |
| | 199 | PM | 5 | 5 | 2 | 29 | 27 | 2 | 65 | 63 | 2 | 12.60 | 12.20 | 0.4 |
| | 100 | 7 AM | 5 | 5 | 0 | 38 | 38 | 0 | 106 | 106 | 0 | 20.40 | 20.40 | |
| | 199 | | 5 | 5 | 2 | 31 | 29 | . 2 | 75 | 73 | 2 | 14.60 | 14.20 | 0.4 |
| | 100 | PM | 2 | 2 | 0 | 30 | 30 | 0 | 55 | 55 | 0 | 26.00 | 26.00 | |
| SUCCESSIONAL | 199 | 2 AM | | 2 | 1 | 19 | 18 | 1 | 50 | 49 | 1 | 25.00 | 24.50 | 0.5 |
| OLD FIELD | | PM | 2 | | 1 | 31 | 30 | 2 | 49 | 47 | 2 | 23.50 | 22.50 | 1.0 |
| | 199 | 5 AM | 2 | 2 | | 27 | 26 | 1 | 33 | 32 | 1 | 16.50 | 16.00 | 0.5 |
| | 100 | PM | 2 | 2 | 0 | 29 | 29 | 0 | 41 | 41 | 0 | 18.50 | 18.50 | , |
| | 199 | 6 AM | 2 | 2 | | | 19 | 3 | 38 | 24 | 14 | 19.00 | 12.00 | 7.0 |
| | | PM | 2 | 2 | 2 | 22 | 42 | 0 | 97 | 97 | 0 | 47.50 | 47.50 | 7.0 |
| | 199 | 7 AM | 2 | 2 | 0 | 42 | | - | | 86 | 1 | 43.50 | 43.00 | 0.5 |
| | | PM | 2 | 2 | 1 | 34 | 33 | 1 | 87 | 86 | 1 | 43.30 | 43.00 | 0.5 |

| Table F5. Vegetation types for West P | | | Total Plots | Site Plots | Total Spp | Site Spp | Total Birds | Site Birds | Ave Tot Birds | Ave Site Birds |
|---------------------------------------|---|-------------------------|----------------|---------------|--------------|-------------|----------------|---------------|------------------|-------------------|
| Vegetation Type | Year | Transect | | | 15 | 15 | 17 | 17 | 17.00 | 17.00 |
| BURN BARREN | 1995 | Line Out | 1 | 1 | 4 | 4 | 4 | 4 | 4.00 | 4.00 |
| | | End Point | 1 | 1 | | 1 | 1 | 1 | 1.00 | 1.00 |
| | | Line In | | 1 | 11 | 11 | 14 | 14 | 14.00 | 14.00 |
| | 1996 | Line Out | 1 | 1 | 9 | . 9 | 9 | 9 | 9.00 | 9.00 |
| | | End Point | 1 | 1 | 2 | 2 | 2 | 2 | 2.00 | 2.00 |
| | | Line In | 1 | 1 | 10 | 10 | 13 | 13 | 13.00 | 13.0 |
| | 1997 | Line Out | 1 | | 8 | 8 | 8 | 8 | 8.00 | 8.0 |
| | | End Point | 1 | 1 | 7 | 7 | 8 | 8 | 8.00 | 8.0 |
| | | Line In | <u> </u> | 1 | 14 | 14 | 19 | 19 | 18.00 | 18.0 |
| HEMLOCK-HARDWOOD SWAMP | 199: | 5 Line Out | 1 | _ | 4 | 4 | 4 | 4 | 4.00 | 4.0 |
| | | End Point | 1 | 1 | 6 | 6 | 7 | 7 | 7.00 | 7.0 |
| | | Line In | <u> </u> | 1 | 9 | 9 | 13 | 13 | 12.00 | 12.0 |
| | 199 | 6 Line Out | 1 | 1 | - | 10 | 12 | 12 | 12.00 | 12.0 |
| | | End Point | 1 | 1 | 10 | | 12 | 1 | 1.00 | 1.0 |
| | | Line In | 1 | 1 | 1 | 15 | 24 | 24 | 24.00 | 24.0 |
| | 199 | 7 Line Out | 1 | 1 | 15 | 6 | 7 | 7 | 7.00 | 7.0 |
| | | End Point | 1 | 1 | 6 | 6 | 6 | 6 | 6.00 | 6.0 |
| | | Line In | 1 | 1 | 13 | 13 | 19 | 19 | 19.00 | 19.0 |
| HEMLOCK-NORTHERN | 199 | 5 Line Out | 1 | 1 | 4 | 4 | 4 | 4 | 4.00 | 4.0 |
| HARDWOOD FOREST | | End Point | 1 | 1 | | 1 | 1 | 1 | 1.00 | 1.0 |
| | | Line In | 1 | 1 | 9 | 9 | 12 | 12 | 12.00 | 12.0 |
| | 199 | 6 Line Out | 1 | 1 | 7 | 7 | 7 | 7 | 7.00 | 7.0 |
| | | End Point | 1 | 1 | 5 | . , , | 6 | 6 | 5.00 | 5.0 |
| | - 100 | Line In | 1 | 1 | 9 | | 10 | 10 | 10.00 | 10.0 |
| | 199 | 7 Line Out | 1 | | 17 | | 20 | 20 | 20.00 | 20.0 |
| | | End Point | 1 | 1 | 5 | | 6 | 6 | 6.00 | 6.0 |
| | 100 | Line In | 5 | 5 | 29 | | 62 | 62 | 12.20 | 12.2 |
| OAK-HICKORY | 199 | 5 Line Out End Point | 5 | | 22 | | 41 | 41 | 7.60 | 7.6 |
| | | Line In | 5 | | 21 | 21 | 30 | 30 | 6.00 | 6.0 |
| | 100 | 6 Line Out | 5 | 5 | 26 | | 68 | 68 | 13.00 | 13.0 |
| | 197 | End Point | 5 | 5 | 22 | | 48 | 48 | 9.20 | 9.2 |
| | | Line In | 5 | _ | | | 24 | 24 | 4.60 | 4.6 |
| | 100 | 7 Line Out | 5 | | | | 107 | 107 | 21.00 | 21.0 |
| | 177 | End Point | 5 | | | | 36 | | 6.40 | 6.4 |
| | | Line In | 5 | | | | 36 | 36 | 7.20 | 7.3 |
| SUCCESSIONAL OLD FIELD | 190 | 2 Line Out | 2 | | | | 50 | | 25.00 | 25.0 |
| SUCCESSIONAL OLD FILLD | • | End Point | 2 | | | | | 22 | 10.50 | 10.5 |
| | | Line In | 2 | | | | | 32 | 15.00 | 15.0 |
| | 190 | 5 Line Out | 2 | | | | | 34 | 16.50 | 16. |
| | | End Point | 2 | | | | | 30 | 14.50 | 14. |
| | | Line In | 2 | | | | | 15 | | 7. |
| | 190 | 6 Line Out | 2 | | | | | 37 | | 17. |
| | | End Point | 2 | | | | | | | 8. |
| | | Line In | 2 | | | | • | | | 4. |
| | 100 | 97 Line Out | 2 | | | | | | | 50. |
| | 19 | End Point | 2 | | | | | | | 30. |
| | | Line In | 2 | | | | | | | 10. |

| Table 10. Tegeran | on types for West Po | | Total | Site | FU | Lotai | Site | FO | Total Birds | Site Birds | FO Birds | Ave Tot Birds | Ave Site Birds | Ave F(Bird |
|-------------------|----------------------|-------|-------|-------|-------|-------|------|-----|----------------|---------------|-------------|------------------|-------------------|----------------|
| Vegetation Type | Mated Status | Year | Plots | Plots | Plots | Spp | Spp | Spp | | 22 | 0 | 22.00 | 22.00 | |
| BURN BARREN | Singing Male | 1995 | 1 | 1 | 0 | 16 | 16 | 0 | . 22 25 | 25 | 0 | 25.00 | 25.00 | |
| | | 1996 | 1 | 1 | 0 | 18 | 18 | 0 | 28 | 28 | 0 | 28.00 | 28.00 | |
| | | 1997 | 1 | 1_ | 0 | 18 | 18 | 0 | 21 | 0 | 21 | 21.00 | 0 | 21.0 |
| | Flock | 1997 | 1 | 0 | 1 | 1 | 0 | 1 | 3 | 1 | 2 | 3.00 | 1.00 | 2.0 |
| | Unknown | 1997 | 1 | 1 | 1 | 2 | 1 | 1 | 25 | 25 | 0 | 25.00 | 25.00 | |
| HEMLOCK- | Singing Male | 1995 | 1 | 1 | 0 | 19 | 19 | 0 | 23 | 23 | 0 | 23.00 | 23.00 | |
| HARDWOOD | | 1996 | 1 | 1 | 0 | 15 | 15 | 0 | 31 | 31 | 0 | 31.00 | 31.00 | |
| SWAMP · | | 1997 | 1 | 1 | 0 | 23 | 23 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | |
| | Adult Male/Female | 1995 | · 1 | 1 | 0 | 1 | 1 | | | 1 | 0 | 1.00 | 1.00 | |
| | | 1996 | 1 | 1 | 0 | 1 | 1 | 0 | 3 | 3 | 0 | 3.00 | 3.00 | |
| | Unknown | 1995 | 1 | 1 | 0 | 3 | 3 | 0 | | | 0 | 1.00 | 1.00 | |
| | | 1996 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | | 6.00 | 6.00 | |
| | | 1997 | 1 | 1 | 0 | 2 | 2 | 0 | 6 | 6 | 0 | | 24.00 | 1.0 |
| HEMLOCK- | Singing Male | 1995 | 1 | . 1 | 1 | 15 | 14 | 1 | 25 | 24 | 1 | 25:00 | | 1.0 |
| NORTHERN | | 1996 | 1 | 1 | 0 | 18 | 18 | 0 | 22 | 22 | 0 | 22.00 | 22.00 | |
| HARDWOOD | | 1997 | 1 | 1 | 0 | 26 | 26 | 0 | 34 | 34 | . 0 | 34.00 | 34.00 | |
| FOREST | Adult Male/Female | 1996 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | |
| | Unknown | 1996 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | |
| | | 1997 | 1 | 1 | 0 | 2 | 2 | 0 | 2 | 2 | 0 | 2.00 | 2.00 | |
| OAK-HICKORY | Singing Male | 1995 | 5 | 5 | 0 | 36 | 36 | 0 | 112 | 112 | 0 | 22.40 | 22.40 | |
| | | 1996 | 5 | 5 | 0 | 34 | 34 | 0 | 115 | 115 | 0 | 23.00 | 23.00 | |
| | | 1997 | 5 | 5 | 0 | 37 | 37 | 0 | 142 | 142 | 0 | 28.40 | 28.40 | |
| | Female Only | 1995 | 5 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0.20 | 0.20 | |
| | • | 1997 | 5 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0.20 | 0.20 | |
| | Non-singing Male | 1995 | 5 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0.20 | 0.20 | |
| | | 1997 | 5 | 2 | 0 | 3 | 3 | 0 | 3 | 3 | 0 | 0.60 | 0.60 | |
| | Not Recorded | 1997 | 5 | 1 | 0 | 1 | 1 | 0 | 6 | 6 | 0 | 1.20 | 1.20 | |
| | Adult Male/Female | 1995 | 5 | 3 | 0 | 4 | 4 | 0 | 4 | 4 | 0 | 0.80 | 0.80 | |
| | | 1996 | 5 | 4 | 0 | 5 | 5 | 0 | 6 | 6 | 0 | 1.20 | 1.20 | |
| | | 1997 | 5 | 4 | 0 | 5 | 5 | 0 | 6 | 6 | 0 | 1.20 | . 1.20 | |
| | Unknown | 1995 | 5 | 5 | 0 | 10 | 10 | 0 | 11 | 11 | 0 | 2.20 | 2.20 | |
| | | 1996 | 5 | 4 | 2 | 12 | 10 | 2 | 15 | 13 | . 2 | 3.00 | 2.60 | 0. |
| | | .1997 | 5 | 4 | 2 | 8 | 6 | 2 | 17 | 15 | . 2 | 3.40 | 3.00 | 0. |
| SUCCESSIONAL | Singing Male | 1992 | 2 | 2 | 0 | 30 | 30 | 0 | 59 | 59 | 0 | 29.50 | 29.50 | |
| OLD FIELD | | 1995 | 2 | 2 | 1 | 38 | 36 | 3 | 70 | 67 | 3 | 35.00 | 33.50 | 1. |
| | | 1996 | 2 | 2 | 1 | 32 | 31 | 1 | . 57 | 55 | 2 | 28.50 | 27.50 | 1. |
| | • | 1997 | 2 | 2 | 0 | 41 | 41 | 0 | 96 | 96 | 0 | 48.00 | 48.00 | |
| • | Female Only | 1992 | 2 | 1 | 0 | 1 | 1 | 0 | 2 | 2 | 0 | 1.00 | 1.00 | |
| | • | 1997 | 2 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0.50 | 0.50 | |
| | Flock | 1996 | 2 | 0 | 1 | 2 | 0 | 2 | 12 | - 0 | 12 | 6.00 | 0.00 | 6. |
| | Non-singing Male | 1992 | 2 | 1 | 0 | 1 | 1 | 0 | 7 | 7 | 0 | 3.50 | 3.50 | |
| | 5 6 | 1996 | 2 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0.50 | 0.50 | |
| | | 1997 | 2 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0.50 | 0.50 | |
| | Not Recorded | 1997 | 2 | 2 | 0 | 9 | 9 | 0 | 69 | 69 | 0 | 34.50 | 34.50 | |
| | Adult Male/Female | 1992 | 2 | 2 | 0 | 3 | 3 | 0 | 3 | ŝ | 0 | 1.50 | 1.50 | |
| | ,, ,, | 1995 | 2 | 1 | 0 | 2 | 2 | 0 | . 2 | 2 | 0 | 1.00 | 1.00 | |
| | | 1996 | 2 | 2 | 0 | 4 | 4 | 0 | 4 | 4 | 0 | 2.00 | 2.00 | |
| | | 1997 | 2 | | 0 | 2 | 2 | 0 | 2 | 2 | 0 | 1.00 | 1.00 | |

| Vegetation Type | Mated Status | Year | Total Plots | Site Plots | FO Plots | Total Spp | Site Spp | FO Spp | Total Birds | Site Birds | FO Birds | Ave Tot Birds | Ave Site Birds | Ave FO Birds |
|-----------------|--------------|------|----------------|---------------|-------------|--------------|-------------|-----------|----------------|---------------|-------------|------------------|-------------------|-----------------|
| vegetation Type | | 1000 | 2 | 2 | 1 | 7 | 6 | 1 | 31 | 30 | 1 | 15.50 | 15.00 | 0.50 |
| | Unknown | 1992 | 2 | 2 | | , | 7 | 0 | | 8 | 0 | 4.00 | 4.00 | 0 |
| | | 1995 | 2 | 2 | U | , | , | U | | | | | 0.50 | 0 |
| | | 1996 | 2 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0.50 | | _ |
| | | 1997 | 2 | 2 | 1 | 8 | 7 | 1 | 13 | 12 | 1 | 6.50 | 6.00 | 0.50 |

| Vegetation Type | types for West Point special use plot | Year | Total Plots | Site Plots | FO Plots | Total Birds | Site Birds | FO Birds | Ave Tot Birds | Ave Site Birds | Ave FO Birds |
|-----------------|---------------------------------------|------|----------------|---------------|-------------|----------------|---------------|-------------|------------------|-------------------|-----------------|
| | Bluebird, Eastern | 1997 | 1 | 1 | 0 | 2 | 2 | 0 | 2.00 | 2.00 | C |
| BURN BARREN | Catbird, Gray | 1995 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | (|
| | Catolia, Gray | 1996 | 1 | 1 | 0 | 2 | 2 | 0 | 2.00 | 2.00 | (|
| | | 1997 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | (|
| | Chickadee, Black-capped | 1995 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | (|
| | Cowbird, Brown-headed | 1995 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | (|
| | Co, world, Brown moure | 1996 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | (|
| | | 1997 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | (|
| | Cuckoo, Black-billed | 1996 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | |
| | Flycatcher, Great-crested | 1996 | 1 | 1 | 0 | 2 | 2 | 0 | 2.00 | 2.00 | (|
| | 2.5 | 1997 | 1 | 1 | 0 | 2 | 2 | 0 | 2.00 | 2.00 | |
| | Goose, Canada | 1997 | 1 | 0 | 1 | 21 | 0 | 21 | 21.00 | 0 | 21.0 |
| | Jay, Blue | 1995 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | (|
| | | 1996 | 1 | 1 | 0 | 2 | 2 | 0 | 2.00 | 2.00 | • |
| | | 1997 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | (|
| | Oriole, Northern | 1995 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | (|
| | Office, Northern | 1996 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | |
| | | 1997 | 1 | 1 | 0 | 2 | 2 | 0 | 2.00 | 2.00 | |
| | Pewee, Eastern Wood | 1995 | 1 | 1 | 0 | 2 | 2 | 0 | 2.00 | 2.00 | |
| | 10000, 200000 | 1996 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | |
| | | 1997 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | (|
| | Robin, American | 1996 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | |
| | | 1997 | 1 | 1 | 0 | . 2 | 2 | 0 | 2.00 | 2,00 | |
| | Sparrow, Field | 1995 | 1 | 1 | 0 | 2 | 2 | 0 | 2.00 | 2.00 | 4 |
| | | 1996 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | |
| | | 1997 | 1 | 1 | 0 | 2 | 2 | 0 | 2.00 | 2.00 | |
| | Tanager, Scarlet | 1995 | 1 | 1 | 0 | 2 | 2 | 0 | 2.00 | 2.00 | |
| | 2 / | 1996 | 1 | 1 | 0 | . 1 | 1 | 0 | 1.00 | 1.00 | |
| | | 1997 | 1 | 1 | 0 | 3 | 3 | 0 | 3.00 | 3.00 | (|
| | Thrush, Hermit | 1996 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | (|
| | | 1997 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | |
| | Thrush, Wood | 1995 | l | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | |
| | | 1997 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | (|
| | Titmouse, Tufted | 1995 | 1 | 1 | 0 | 1 | , 1 | 0 | 1.00 | 1.00 | |
| | Towhee, Rufous-sided | 1995 | 1 | 1 | 0 | 3 | 3 | 0 | 3.00 | 3.00 | (|
| | | 1996 | 1 | 1 | . 0 | 3 | 3 | 0 | 3.00 | 3.00 | (|
| | | 1997 | 1 | 1 | 0 | 3 | 3 | 0 | 3.00 | 3.00 | |
| | Veery | 1997 | 1 | 1 | 0 | 2 | 2 | 0 | 2.00 | 2.00 | |
| | Vireo, Red-eyed | 1995 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | (|
| | | 1996 | 1 | 1 | 0 | 2 | 2 | 0 | 2.00 | 2.00 | • |
| | | 1997 | 1 | 1 | 0 | 2 | 2 | . 0 | 2.00 | 2.00 | |
| | Vulture, Turkey | 1997 | 1 | 0 | 1 | 2 | 0 | 2 | 2.00 | 0 | 2.0 |
| | Warbler, Black-and-white | 1995 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | 4 |
| | | 1996 | 1 | 1 | 0 | 2 | 2. | 0 | 2.00 | 2.00 | 1 |
| | | 1997 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | |
| | Warbler, Prairie | 1995 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | | |
| | | 1996 | 1 | | 0 | 1 | 1 | 0 | 1.00 | 1.00 | |
| | Waterthrush, Louisiana | 1995 | 1 | 1 | 0 | . 1 | 1 | 0 | 1:00 | 1.00 | |
| | | 1996 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | , 1.00 | |

| | Species | Year | Total Plots | Site Plots | FO Plots | Total Birds | Site Birds | FO Birds | Ave Tot Birds | Ave Site Birds | Ave FO Birds |
|--|---------------------------|------|----------------|---------------|-------------|----------------|---------------|-------------|------------------|-------------------|---------------------------------------|
| Vegetation Type | | 1995 | 1 | 1 | 0 | 2 | 2 | 0 | 2.00 | 2.00 | (|
| | Waxwing, Cedar | 1995 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | (|
| | | 1997 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | (|
| | Yellowthroat, Common | 1996 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | |
| | Yellowthroat, Common | 1997 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | |
| TO STATE OF THE PROPERTY OF TH | Dusting Indigo | 1996 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | |
| HEMLOCK-HARDWOOD | Bunting, Indigo | 1997 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | |
| SWAMP | Catbird, Gray | 1995 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | |
| | Catoird, Gray | 1997 | 1 | 1 | 0 | 2 | 2 | 0 | 2.00 | 2.00 | |
| | Chickadee, Black-capped | 1995 | | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | |
| | Chickagee, Black-capped | 1996 | 1 | 1 | 0 | 2 | 2 | 0. | 2.00 | 2.00 | |
| | Cowbird, Brown-headed | 1995 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | |
| | Cowbird, Brown-neaded | 1996 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 00.1 | |
| | | 1997 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | |
| | Flicker, Northern | 1996 | 1 | 1 | 0 | 2 | 2 | 0 | 2.00 | 2.00 | |
| | Flycatcher, Great-crested | 1997 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | |
| | Gnatcatcher, Blue-gray | 1995 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | |
| | Goldfinch, American | 1997 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | |
| | Grouse, Ruffed | 1995 | 1 | 1 | 0 | _ | 1 | 0 | 1.00 | 1.00 | **** |
| | | 1996 | 1 | 1 | 0 | 2 | | 0 | 2.00 | 2.00 | |
| | Jay, Blue | 1997 | 1 | 1 | 0 | | 1 | 0 | 1.00 | 1.00 | |
| | Kingbird, Eastern | 1997 | 1 | 1 | 0 | | | 0 | 1.00 | 1.00 | |
| | Nuthatch, White-breasted | 1997 | 1 | 1 | 0 | | 1 | . 0 | 1.00 | 1.00 | |
| | Ovenbird | 1995 | 1 | 1 | 0 | | 1 | . 0 | 1.00 | 1.00 | |
| | Ovenbild | 1996 | 1 | 1 | 0 | | 1 | 0 | 1.00 | 1.00 | |
| | | 1997 | 1 | 1 | 0 | | 2 | 0 | 2.00 | 2.00 | |
| | Owl, Great Horned | 1995 | 1 | | 0 | | | 0 | 1.00 | 1.00 | · · · · · · · · · · · · · · · · · · · |
| | Pewee, Eastern Wood | 1995 | 1 | | 0 | | | 0 | 1.00 | 1.00 | |
| | rewee, Eastern Wood | 1997 | 1 | 1 | 0 | | | 0 | 1.00 | 1.00 | |
| | Phoebe, Eastern | 1997 | 1 | | 0 | | | 0 | 1.00 | 1.00 | |
| | Redstart, American | 1997 | 1 | | | | | 0 | | 1.00 | |
| | Robin, American | 1995 | 1 | 1 | | | | 0 | 1.00 | 1.00 | |
| | Robin, American | 1996 | | | | | | 0 | | 1.00 | |
| | Sparrow, Chipping | 1995 | | | | | | | | 2.00 | |
| | Sparrow, Chipping | 1997 | | | - | | | 0 | | 1.00 | |
| | Tanager, Scarlet | 1995 | | | | | | | | 1.00 | |
| | Tanager, Scarce | 1996 | | | | | | | | 2.00 | |
| | | 1997 | | | | | | | | 2.00 | |
| | Thrush, Hermit | 1995 | | | | | | | | 1.00 | |
| | Tinush, Herimt | 1997 | | | | | | | | 1.00 | |
| | Thrush, Swainson's | 1997 | | | | | | | | 1.00 | |
| | Thrush, Wood | 1995 | | | | | | | | 2.00 | |
| | - III 4511, 17 OOU | 1996 | | | | | | | | 1.00 | |
| | | 1997 | | | | | | | | 2.00 | |
| | Towhee, Rufous-sided | 1995 | | | | | | | | 3.00 | |
| | rownee, Ruious-sided | 1996 | | | | | | | | 3.00 | |
| | | 1990 | | | | | | | | 4.00 | |
| | Vooru | 1997 | | | | | | | | 2.00 | |
| | Veery | 1995 | | | | | | | | 1.00 | |

| Vireo, Red-eyed | | Species | Year | Total Plots | Site Plots | FO Plots | Total Birds | Site Birds | FO Birds | Ave Tot Birds | Ave Site Birds | Ave FO Birds |
|--|-----------------|--------------------------|------|----------------|---------------|-------------|----------------|---------------|-------------|------------------|-------------------|-----------------|
| Vireo, Solitary | Vegetation Type | | 1995 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | 0 |
| Vireo. Solitary | | Vireo, Red-eyed | | _ | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | 0 |
| Vitro Solitary 1995 | | | | _ | | .0 | 3 | 3 | 0 | 3.00 | 3.00 | 0 |
| Warbler, Black-and-white | | Yr C-liter | | | | 0 | 3 | 3 | 0 | 2.00 | 2.00 | 0 |
| Name | | | | | 1 | 0 | 2 | 2 | 0 | 2.00 | 2.00 | 0 |
| Marbler, Canada 1997 | | Warbier, Black-and-winte | | | 1 | 0 | 3 | 3 | 0 | 3.00 | 3.00 | 0 |
| Warbler, Chanada | | | | 1 | 1 | 0 | 2 | . 2_ | 0 | 2.00 | 2.00 | 0 |
| Warbler, Chestmul-sided 1995 | | Warbler Canada | | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | 0 |
| Warbler, Prairie | | | | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | 0 |
| 1996 1 1 0 2 2 0 2.00 2.00 2.00 1997 1 1 0 3 3 0 3.00 3 | | | | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | 0 |
| Warbler, Yellow | | Warbier, France | | 1 | 1 | 0 | 2 | 2 | 0 | 2.00 | 2.00 | 0 |
| Warbler, Yellow 1995 | , | | | 1 | 1 | 0 | 3 | 3 | 0 | 3.00 | 3.00 | 0 |
| Waterhrush, Louisiana 1996 | | Wetler Vellow | | | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | 0 |
| WaterIndust, Education 1997 1 1 0 2 2 0 2.00 2.00 2.00 Woodpecker, Hairy 1996 1 1 0 1 1 0 1.00 | | | | | | 0 | 2 | 2 | 0 | 2.00 | 2.00 | 0 |
| Waking W | | | | | | | 2 | 2 | 0 | 2:00 | 2.00 | 0 |
| Woodpecker, Hally 1997 1 1 0 1 1 0 1.00 | | | | | | | | 1 | 0 | 1.00 | 1.00 | 0 |
| HEMLOCK-NORTHERN HARDWOOD FOREST Elackbird, Red-winged 1997 1 1 0 3 3 0 3.00 3.00 3.00 1.00 | | | | | | | | | 0 | 1.00 | 1.00 | 0 |
| HEMLOCK-NORTHERN HARDWOOD FOREST Cardinal, Northern 1995 1 1 0 1 1 0 1.00 1.00 1.00 1.00 1.00 1. | | | | | | | | | | | 3.00 | 0 |
| Cardinal, Northern 1995 | | | | | | | | | | | | 0 |
| Caibird, Gray 1997 1 1 0 2 2 0 0 2.00 2.00 Chickadee, Black-capped 1995 1 1 0 1 1 0 1.00 1.00 1997 1 1 0 0 1 1 0 1.00 1.00 1997 1 1 0 0 2 2 0 0 2.00 2.00 Cowbird, Brown-headed 1996 1 1 0 1 1 0 1.00 1.00 1997 1 1 0 1 0 1 0 1.00 1.00 1997 1 1 0 1 1 0 1.00 1.00 1997 1 1 0 1 1 0 1.00 1.00 Crow, American 1996 1 1 0 2 2 0 0 2.00 2.00 Flicker, Northern 1995 1 1 0 2 2 0 0 2.00 2.00 Flycatcher, Acadian 1995 1 1 0 2 2 0 0 2.00 2.00 Flycatcher, Acadian 1995 1 1 0 1 1 0 1.00 1.00 Flycatcher, Acadian 1995 1 1 0 1 1 0 1.00 1.00 Gnatcatcher, Blue-gray 1996 1 1 0 1 1 0 1.00 1.00 Gnatcatcher, Blue-gray 1996 1 1 0 1 1 0 1.00 1.00 Goddfinch, American 1996 1 1 0 1 1 0 1.00 1.00 Grackle, Common 1996 1 1 0 1 1 0 1.00 1.00 Grackle, Common 1996 1 1 0 1 1 0 1.00 1.00 Inou Grosbeak, Rose-breasted 1996 1 1 0 1 1 0 1.00 1.00 Jay, Blue 1995 1 1 0 1 1 0 1.00 1.00 Flogbird, Eastern 1996 1 1 0 1 1 0 1.00 1.00 Oriole, Northern 1997 1 1 0 1 1 0 1.00 1.00 Ovenbird 1997 1 1 0 1 1 0 1.00 1.00 Pewee, Eastern Wood 1997 1 1 0 1 1 0 1.00 1.00 Redstart, American 1995 1 1 0 1 1 0 1.00 1.00 Redstart, American 1995 1 1 0 1 1 0 1.00 1.00 Redstart, American 1995 1 1 0 1 1 0 1.00 1.00 Redstart, American 1995 1 1 0 1 1 0 1.00 1.00 Redstart, American 1995 1 1 0 1 1 0 1.00 1.00 Redstart, American 1995 1 1 0 1 1 0 1.00 1.00 Redstart, American 1995 1 1 0 1 1 0 1.00 1.00 Redstart, American 1995 1 1 0 1 1 0 1.00 1.00 Redstart, American 1995 1 1 0 1 1 0 1.00 1.00 Redstart, American 1995 1 1 0 1 1 0 1.00 1.00 Redstart, American 1995 1 1 0 1 1 0 1.00 1.00 Redstart, American 1995 1 1 0 1 1 0 1.00 1.00 Redstart, American 1995 1 1 0 1 1 0 1.00 1.00 Redstart, American 1995 1 1 0 1 1 0 1.00 1.00 Redstart, American 1995 1 1 0 1 1 0 1 1 0 1.00 1.00 Redstart, American 1997 1 1 0 1 1 0 1 1 0 1.00 1.00 Redstart, American 1997 1 1 0 1 1 0 1 1 0 1.00 1.00 Redstart, American 1997 1 1 0 1 1 0 1 1 0 1.00 1.00 | HARDWOOD FOREST | | | | | | | | | | | 0 |
| Chickadee, Black-capped 1995 1 1 0 1 1 0 1.00 1.00 1.00 1.90 1.996 1 1 0 1 1 0 1.00 1.00 1.00 1.00 1.997 1 1 0 2 2 0 2.00 2.00 2.00 1.997 1 1 0 1 1 0 1.00 1.00 1.00 1.00 1.00 1 | | Catbird, Gray | | | | | _ | | - | | | 0 |
| Chrickadee, Black-Capped 1996 1 1 0 1 1 0 1.00 1.00 1.00 1.97 1 1 0 2 2 0 0 2.00 2.00 2.00 1.00 1.997 1 1 0 1 1 0 1.00 1.00 1.00 1.00 1.00 1 | | | | | | | | | | | | 0 |
| 1997 1 1 0 2 2 0 2.00 2.00 | | Chickadee, Black-capped | | | | | | _ | | | | 0 |
| Cowbird, Brown-headed | | | | | | | | | | | | 0 |
| 1997 1 1 0 1 1 0 1.00 1.00 | | O. I. I. Daniel Landad | | | | | | | | | | 0 |
| Crow, American 1996 | | Cowbird, Brown-neaded | | | | - | _ | | | | | 0 |
| Flicker, Northern 1995 1 1 0 2 2 2 0 2.00 2.00 Flycatcher, Acadian 1995 1 1 0 1 1 0 1.00 1.00 1.00 Flycatcher, Great-crested 1996 1 1 0 1 1 0 1.00 1.00 1.00 Gnatcatcher, Blue-gray 1996 1 1 0 1 1 0 1.00 1.00 1.00 Goldfinch, American 1996 1 1 0 2 2 2 0 2.00 2.00 2.00 Grackle, Common 1996 1 1 0 1 1 0 1.00 1.00 1.00 1.00 Grosbeak, Rose-breasted 1996 1 1 0 1 1 0 1.00 1.00 1.00 1.00 Jay, Blue 1995 1 1 0 1 1 0 1.00 1.00 1.00 1.00 I.00 I. | | C American | | | | | | | | | 1.00 | 0 |
| Flycatcher, Acadian 1995 1 1 0 1 1 0 1.00 1.00 Flycatcher, Great-crested 1996 1 1 0 1 1 0 1.00 1.00 1.00 Gnatactcher, Blue-gray 1996 1 1 0 1 1 0 1.00 1.00 1.00 Goldfinch, American 1996 1 1 0 2 2 0 0 2.00 2.00 Grackle, Common 1996 1 1 0 1 1 0 1.00 1.00 1.00 1.00 Grosbeak, Rose-breasted 1996 1 1 0 1 1 0 1.00 1.00 1.00 1.00 Jay, Blue 1995 1 1 0 1 1 0 1.00 1.00 1.00 1.00 1.00 1 | | | | | | | | | | | 2.00 | 0 |
| Flycatcher, Great-crested 1996 1 1 0 1 1 0 1.00 1.00 Gnatcatcher, Blue-gray 1996 1 1 0 1 1 0 1.00 1.00 Goldfinch, American 1996 1 1 0 1 1 0 1.00 1.00 Grackle, Common 1996 1 1 0 1 1 0 1.00 1.00 Grosbeak, Rose-breasted 1996 1 1 0 1 1 0 1.00 1.00 Jay, Blue 1995 1 1 0 1 1 0 1.00 1.00 Kingbird, Eastern 1996 1 1 0 1 1 0 1.00 1.00 Kingbird, Eastern 1996 1 1 0 1 1 0 1.00 1.00 Oriole, Northern 1997 1 1 0 1 1 0 1.00 1.00 Ovenbird 1996 1 1 0 1 1 0 1.00 1.00 Ovenbird 1997 1 1 0 1 1 0 1.00 1.00 Owl, Barred 1995 1 0 1 1 0 1 1 0 1.00 1.00 Pewee, Eastern Wood 1997 1 1 0 1 1 0 1.00 1.00 Redstart, American 1995 1 1 0 1 1 0 1.00 1.00 Tanager, Scarlet 1995 1 1 0 3 3 3 0 3.00 3.00 Tanager, Scarlet 1995 1 1 0 3 1 1 0 1.00 1.00 Tanager, Scarlet 1995 1 1 0 3 3 3 0 3.00 3.00 | | | | | | | | | | | 1.00 | 0 |
| Gnatcatcher, Blue-gray 1996 1 1 0 1 1 0 1.00 1.00 | | | | | | | | | | | | . 0 |
| Goldfinch, American 1996 1 1 0 2 2 0 2.00 2.00 2.00 Grackle, Common 1996 1 1 0 1 1 0 1.0 | | | | | | | | | | | | 0 |
| Grackle, Common 1996 | | | | | | | | | | | | 0 |
| Grosbeak, Rose-breasted 1996 1 1 0 1 1 0 1.00 | | | | | | | | | | | | 0 |
| Jay, Blue | | | | | | | | | | | | 0 |
| 1996 1 1 0 1 1 0 1.00 | | | | | | | | | | | | 0 |
| Kingbird, Eastern 1996 1 1 0 1 1 0 1.00 1.00 1.00 1997 1 1 0 1 1 0 1.00 1.00 Oriole, Northern 1997 1 1 0 1 1 0 1.00 1.00 Ovenbird 1996 1 1 0 1 1 0 1.00 1.00 1997 1 1 0 1 1 0 1.00 1.00 Pewee, Eastern Wood 1997 1 1 0 1 1 0 1.00 1.00 Redstart, American 1995 1 1 0 1 1 0 1.00 1.00 1996 1 1 0 1 1 0 1.00 1.00 Tanager, Scarlet 1995 1 1 0 1 1 0 1.00 1.00 1997 1 1 0 1 1 0 1.00 1.00 | | Jay, Blue | | | | | | | | | 1.00 | 0 |
| 1997 1 1 0 1 1 0 1.00 1.00 | | Vinghied Factors | | | | | | | | | | 0 |
| Oriole, Northern 1997 1 1 0 1 1 0 1.00 1.00 Ovenbird 1996 1 1 0 1 1 0 1.00 1.00 1997 1 1 0 1 1 0 1.00 1.00 Pewee, Eastern Wood 1997 1 1 0 1 1 0 1.00 1.00 Redstart, American 1995 1 1 0 2 2 0 2.00 2.00 1996 1 1 0 1 1 0 1.00 1.00 Tanager, Scarlet 1995 1 1 0 3 3 0 3.00 3.00 1997 1 1 0 1 1 0 1.00 1.00 1997 1 1 0 3 3 0 3.00 3.00 1997 1 1 0 <td></td> <td>Kingonu, Eastern</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0</td> | | Kingonu, Eastern | | | | | | | | | | 0 |
| Ovenbird 1996 1 1 0 1 1 0 1.00 1.00 1997 1 1 0 1 1 0 1.00 1.00 Owl, Barred 1995 1 0 1 1 0 1 1.00 0 Pewee, Eastern Wood 1997 1 1 0 1 1 0 1.00 1.00 Redstart, American 1995 1 1 0 2 2 0 2.00 2.00 1996 1 1 0 1 1 0 1.00 1.00 Tanager, Scarlet 1995 1 1 0 3 3 0 3.00 3.00 1996 1 1 0 3 3 0 3.00 3.00 1997 1 1 0 1 1 0 1.00 1.00 1997 1 1 0 | | Oriole Northern | | | | | | | | | | 0 |
| 1997 1 1 0 1 1 0 1.00 1.00 | | | | | | | | | | | 1.00 | 0 |
| Owl, Barred 1995 1 0 1 1 0 1 1.00 0 Pewee, Eastern Wood 1997 1 1 0 1 1 0 1.00 1.00 Redstart, American 1995 1 1 0 2 2 0 2.00 2.00 1996 1 1 0 1 1 0 1.00 1.00 1997 1 1 0 1 1 0 1.00 1.00 1996 1 1 0 3 3 0 3.00 3.00 1996 1 1 0 1 1 0 1.00 1.00 1996 1 1 0 1 1 0 1.00 1.00 1997 1 1 0 3 3 0 3.00 3.00 1997 1 1 0 3 3 0 < | | Ovenoud | | | | | | | | | | 0 |
| Pewee, Eastern Wood 1997 1 1 0 1 1 0 1.00 1.00 Redstart, American 1995 1 1 0 2 2 0 2.00 2.00 1996 1 1 0 1 1 0 1.00 1.00 1997 1 1 0 1 1 0 1.00 1.00 Tanager, Scarlet 1995 1 1 0 3 3 0 3.00 3.00 1996 1 1 0 1 1 0 1.00 1.00 1997 1 1 0 3 3 0 3.00 3.00 | | Out Pared | | | | | | | | | | 1.00 |
| Redstart, American 1995 1 1 0 2 2 0 2.00 2.00 1.00 1.00 1.00 1. | | | | | | | | | | | | 0 |
| Tanager, Scarlet 1996 1 1 0 1 1 0 1.00 1.00 1.00 1.00 1.00 1. | | | | | | | | | | | | 0 |
| Tanager, Scarlet 1997 1 1 0 1 1 0 1.00 1.00 Tanager, Scarlet 1995 1 1 0 3 3 0 3.00 3.00 1996 1 1 0 1 1 0 1.00 1.00 1997 1 1 0 3 3 0 3.00 3.00 | | Acustan, American | | | | | | | | • | | 0 |
| Tanager, Scarlet 1995 1 1 0 3 3 0 3.00 3.00 1996 1 1 0 1 1 0 1 1 0 1.00 1.00 1997 1 1 0 3 3 0 3.00 3.00 | | | | | | | | | | | | 0 |
| 1996 1 1 0 1 1 0 1.00 1.00 1997 1 1 0 3 3 0 3.00 3.00 | | Tanager Scarlet | | | | | | | | | | . 0 |
| 1997 1 1 0 3 3 0 3.00 3.00 | | amager, Scarlet | | | | | | | | | | 0 |
| | | | | | | | | | | | | 0 |
| Thrush, Hermit 1997 1 1 0 1 1 0 1.00 1.00 | | 771 .1 YY '. | | | | | | 1 | 0 | 1.00 | 1.00 | 0 |
| | | | | | | | | | | | | |

| V. Anthon Tomo | Species | Year | Total Plots | Site Plots | FO Plots | Total Birds | Site Birds | FO Birds | Ave Tot Birds | Ave Site Birds | Ave FO Birds |
|-----------------|-----------------------------------|------|----------------|---------------|-------------|----------------|---------------|-------------|------------------|-------------------|-----------------|
| Vegetation Type | | 1996 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | 0 |
| | Thrush, Wood | 1997 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | 0 |
| | Titmouse, Tufted | 1997 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | 0 |
| | Towhee, Rufous-sided | 1995 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | 0 |
| | Townee, Rulous-sided | 1997 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | 0 |
| | Voor | 1995 | 1 | 1 | 0 | 2 | 2 | 0 | 2.00 | 2.00 | 0 |
| | Veery | 1996 | 1 | 1 | 0 | 3 | 3 | 0 | 3.00 | 3.00 | 0 |
| | | 1997 | 1 | 1 | 0 | 2 | 2 | 0 | 2.00 | 2.00 | 0 |
| | Vireo, Red-eyed | 1995 | 1 | 1 | 0 | 2 | 2 | 0 | 2.00 | 2.00 | 0 |
| | vireo, Red-eyed | 1996 | 1 | 1 | . 0 | 2 | 2 | 0 | 2.00 | 2.00 | 0 |
| | | 1997 | 1 | 1 | 0 | 2 | 2 | 0 | 2.00 | 2.00 | 0 |
| | True Callean | 1995 | 1 | 1 | | 2 | 2 | 0 | 2.00 | 2.00 | 0 |
| | Vireo, Solitary | 1996 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | 0 |
| | | | 1 | 1 | | 1 | 1 | 0 | 1.00 | 1.00 | 0 |
| | | 1997 | | | | | 1 | 0 | 1.00 | 1.00 | (|
| | Vireo, Yellow-throated | 1996 | 1 | 1 | | | 2 | 0 | 2.00 | 2.00 | . 0 |
| | Warbler, Black-and-white | 1995 | 1 | | | | 1 | 0 | 1.00 | 1.00 | |
| | | 1997 | 1 | 1 | | | 1 | 0 | 1.00 | 1.00 | (|
| | Warbler, Blackburnian | 1997 | 1 | | | | 3 | 0 | 3.00 | 3.00 | |
| | Warbler, Black-throated Green | 1995 | 1 | | | | | | 2.00 | 2.00 | (|
| | | 1997 | 1 | | | | 2 | 0 | | 1.00 | |
| | Warbler, Chestnut-sided | 1997 | 1 | | | | 1 | 0 | | | |
| | Warbler, Yellow | 1996 | 1 | | | | 1 | 0 | 1.00 | 1.00 | |
| | | 1997 | 1 | | | | 1 | 0 | 1.00 | 1.00 | |
| | Waxwing, Cedar | 1997 | 1 | 1 | | | 1 | 0 | 1.00 | 1.00 | |
| | Woodpecker, Pileated | 1997 | 1 | | | | | 0 | 1.00 | 1.00 | |
| | Woodpecker, Red-bellied | 1997 | 1 | 1 | 0 | | | 0 | 1.00 | 1.00 | |
| | Yellowthroat, Common | 1997 | 1 | 1 | 0 | 2 | | 0 | | 2.00 | |
| OAK-HICKORY | Blackbird, Red-winged | 1996 | 5 | 0 | | | | 1 | 0.20 | 0.00 | |
| | Bluebird, Eastern | 1995 | 5 | 1 | | | | 0 | | 0.60 | |
| | Cardinal, Northern | 1995 | 5 | 1 | 0 | 1 | | 0 | | 0.20 | |
| | | 1997 | 5 | 2 | | | | 0 | | 0.40 | |
| | Catbird, Gray | 1995 | . 5 | 1 | . 0 | 1 | 1 | . 0 | | 0.20 | |
| | | 1996 | 5 | 1 | . 0 | 1 | 1 | 0 | 0.20 | 0.20 | • |
| | | 1997 | 5 | 1 | 0 | 2 | 2 | . 0 | 0.40 | 0.40 | |
| | Chickadee, Black-capped | 1995 | 5 | 1 | . 0 | 1 | 1 | 0 | 0.20 | 0.20 | • |
| | | 1996 | 5 | 5 2 | 2 0 | 2 | 2 | 0 | 0.40 | 0.40 | • |
| | | 1997 | 5 | 3 | 0 | 5 | 5 | 0 | 0.80 | 0.80 | |
| | Cowbird, Brown-headed | 1995 | 5 | 5 4 | 0 | 6 | 6 | . 0 | 1.20 | 1.20 | |
| | | 1996 | 5 | 3 2 | 2 0 | 2 | 2 | 0 | 0.40 | 0.40 | |
| | | 1997 | 5 | 5 5 | 5 0 | 11 | 11 | 0 | 2.00 | 2.00 | 1 |
| | Creeper, Brown | 1995 | 5 | i 1 | . 0 | 1 | · 1 | 0 | 0.20 | 0.20 | |
| | Crow, American | 1995 | 5 | 5 1 | 0 | 2 | 2 | 0 | 0.40 | 0.40 | |
| | | 1996 | | 5 1 | 0 | 4 | 4 | 0 | 0.80 | 0.80 | |
| | | 1997 | | | 2 0 | 2 | . 2 | 0 | 0.40 | 0.40 | ١ |
| | Cuckoo, Black-billed | 1995 | | 5 1 | | 1 | 1. | 0 | 0.20 | 0.20 | |
| | Cuckoo, Yellow-billed | 1995 | | 5 1 | | | | 0 | 0.20 | 0.20 | |
| | Flicker, Northern | 1995 | | | 3 0 | | | 0 | | | |
| | , • • • • • • • • • • • • • • • • | 1996 | | | 3 0 | | | | | | |
| | | 1997 | | | 2 0 | | | | | | |

| | | | Total | Site | FO Plots | Total Birds | Site Birds | FO Birds | Ave Tot Birds | Ave Site Birds | Ave FO Birds |
|-----------------|---------------------------|------|-------|-------|-------------|----------------|---------------|-------------|------------------|-------------------|-----------------|
| Vegetation Type | Species | Year | Plots | Plots | | | | 0 | 1.00 | 1.00 | 0 |
| | Flycatcher, Great-crested | 1995 | 5 | 3 | 0 | 5 | 5 | 0 | 1.20 | 1.20 | 0 |
| | | 1996 | 5 | 4 | 0 | . 6 | 6 7 | 0 | 1.40 | 1.40 | C |
| | | 1997 | 5 | 4 | 0 | 7 | 3 | 0 | 0.40 | 0.40 | 0 |
| | Gnatcatcher, Blue-gray | 1995 | 5 | 2 | -0 | | 4 | 0 | 0.80 | 0.80 | C |
| | | 1996 | 5 | 2 | 0 | 4 | | 0 | 0.60 | 0.60 | 0 |
| | | 1997 | 5 | 3 | 0 | 4 | 4 | 0 | 0.40 | 0.40 | (|
| | Goldfinch, American | 1995 | 5 | 2 | 0 | 2 | 2 | | 1.20 | 1.20 | (|
| | Goose, Canada | 1997 | 5 | 1 | 0 | 6 | 6 | 0 | 0.80 | 0.80 | (|
| | Grackle, Common | 1995 | 5 | 2 | 0 | 4 | 4 | | 0.20 | 0.20 | (|
| | | 1996 | 5 | | 0 | 1 | 1 | 0 | 0.20 | 0.20 | Ì |
| | | 1997 | 5 | 1 | 0 | 1 | 1 | 0 | | 0.20 | (|
| | Grosbeak, Rose-breasted | 1995 | 5 | 1 | 0 | 1 | 1 | 0 | 0.20 | 0.40 | . (|
| | | 1996 | 5 | 1 | 0 | 2 | 2 | 0 | 0.40 | 0.40 | (|
| | | 1997 | 5 | 1 | 0 | 1 | 1 | 0 | 0.20 | | |
| | Hawk, Red-tailed | 1995 | 5 | . 1 | 0 | 1 | 1 | 0 | 0.20 | 0.20 | |
| | | 1996 | 5 | 0 | 1 | 1 | 0 | 1 | 0.20 | 0 | 0.20 |
| | Heron, Great Blue | 1997 | 5 | 1 | 1 | 3 | 2 | 1 | 0.40 | 0.20 | 0.20 |
| | Jay, Blue | 1995 | 5 | 2 | 0 | 3 | 3 | 0 | 0.60 | 0.60 | |
| | | 1996 | 5 | 1 | 0 | 1 | 1 | 0 | 0.20 | 0.20 | |
| | | 1997 | 5 | 3 | -0 | 5 | 5 | 0 | 1.00 | 1.00 | |
| | Nuthatch, White-breasted | 1995 | 5 | 2 | 0 | 2 | 2 | 0 | 0.40 | 0.40 | |
| | | 1996 | 5 | 3 | 0 | 3 | 3 | 0 | 0.60 | 0.60 | |
| | | 1997 | 5 | 4 | 0 | 10 | 10 | 0 | 1.60 | 1.60 | 1 |
| | Oriole, Northern | 1995 | 5 | 5 | 0 | 9 | 9 | 0 | 1.80 | 1.80 | 1 |
| | | 1996 | 5 | 5 | 0 | 8 | 8 | 0 | 1.60 | 1.60 | (|
| | | 1997 | 5 | 5 | 0 | 15 | 15 | 0 | 3.00 | 3.00 | (|
| | Ovenbird | 1995 | 5 | 2 | 0 | 2 | 2 | 0 | 0.40 | 0.40 | . (|
| | | 1996 | 5 | 3 | 0 | 7 | 7 | 0 | 1.40 | 1.40 | |
| | | 1997 | 5 | 3 | 0 | 5 | 5 | 0 | 1.00 | 1.00 | (|
| | Owl, Barred | 1995 | 5 | 1 | 0 | 1 | 1 | 0 | 0.20 | 0.20 | (|
| | Parula, Northern | 1996 | 5 | 1 | 0 | 1 | 1 | 0 | 0.20 | 0.20 | |
| | Pewee, Eastern Wood | 1995 | 5 | 5 | 0 | 10 | 10 | 0 | 1.80 | 1.80 | |
| | | 1996 | 5 | 4 | 0 | 5 | 5 | 0 | 1.00 | 1.00 | (|
| | | 1997 | 5 | 5 | 0 | 10 | 10 | 0 | 2.00 | 2.00 | |
| | Phoebe, Eastern | 1995 | 5 | 2 | 0 | 3 | 3 | 0 | 0.60 | 0.60 | 1 |
| | | 1997 | 5 | 1 | 0 | 1 | 1 | 0 | 0.20 | 0.20 | (|
| | Redstart, American | 1995 | 5 | 1 | 0 | . 2 | . 2 | 0 | 0.40 | 0.40 | (|
| | , | 1996 | 5 | 4 | 0 | 6 | 6 | 0 | 1.00 | 1.00 | |
| | | 1997 | 5 | 4 | 0 | 7 | 7 | 0 | 1.40 | 1.40 | ĺ |
| | Robin, American | 1995 | | | 0 | 11 | 11 | 0 | 2.00 | 2.00 | |
| | | 1996 | 5 | 3 | 0 | 9 | .9 | 0 | 1.60 | 1.60 | 1 |
| | | 1997 | 5 | | 0 | 10 | 10 | 0 | 2.00 | 2.00 | |
| | Sparrow, Chipping | 1995 | | 3 | 0 | 8 | 8 | 0 | 1.60 | 1.60 | |
| | Sparon, Smpping | 1996 | | 3 | 0 | 7 | 7 | 0 | 1.40 | 1.40 | • |
| | | 1997 | 5 | | 0 | | 7 | 0 | 1.40 | 1.40 | |
| | Tanager, Scarlet | 1995 | | | 0 | | 11 | 0 | 2.00 | 2.00 | (|
| | I aliagoi, Soarrot | 1996 | | 5 | 0 | | 12 | 0 | 2.00 | 2.00 | |
| | | 1997 | | | | | 11 | 0 | 2.20 | 2.20 | , |
| | Thrush, Hermit | 1995 | | | | | | 0 | 0.40 | 0.40 | |

| | Species | Year | Total Plots | Site Plots | FO Plots | Total Birds | Site Birds | FO Birds | Ave Tot Birds | Ave Site Birds | Ave FO Birds |
|----------------|--------------------------|--------------|----------------|---------------|-------------|----------------|---------------|-------------|------------------|-------------------|-----------------|
| egetation Type | | 1995 | 5 | 2 | 0 | 3 | 3 | 0 | 0.60 | 0.60 | (|
| | Thrush, Wood | 1995 | 5 | 3 | 0 | 5 | 5 | 0 | 1.00 | 1.00 | |
| | | 1990 | 5 | 1 | 0 | 3 | 3 | 0 | 0.60 | 0.60 | (|
| | | 1995 | 5 | 3 | 0 | 3 | 3 | 0 | 0.60 | 0.60 | (|
| | Titmouse, Tufted | 1995 | 5 | 2 | 0 | 5 | 5 | 0 | 1.00 | 1.00 | |
| | | 1990 | 5 | 2 | 0 | 2 | 2 | 0 | 0.40 | 0.40 | |
| | | 1995 | 5 | 2 | 0 | 2 | 2 | 0 | 0.40 | 0.40 | - (|
| | Towhee, Rufous-sided | 1995 | 5 | 3 | | 3 | 3 | 0 | 0.60 | 0.60 | |
| | | | 5 | 4 | . 0 | 5 | 5 | 0 | 1.00 | 1.00 | |
| | | 1997 | 5 | 1 | 0 | 1 | 1 | 0 | 0.20 | 0.20 | |
| | Turkey, Wild | 1996 | 5 | 2 | 0 | 2 | 2 | 0 | 0.40 | 0.40 | |
| | Veery | 1996 | | 2 | 0 | 2 | . 2 | 0 | 0.40 | 0.40 | |
| | | 1997 | 5 | 4 | 0 | 6 | 6 | 0 | 1.20 | 1.20 | • |
| | Vireo, Red-eyed | 1995 | 5 | 5 | 0 | 12 | 12 | 0 | 2.40 | 2.40 | |
| | | 1996 1997 | 5 | 4 | 0 | 11 | 11 | 0 | 2.20 | 2.20 | |
| | | | 5 | 1 | 0 | 2 | 2 | 0 | 0.20 | 0.20 | |
| | Vireo, Solitary | 1996 | | 1 | 0 | 1 | 1 | 0 | 0.20 | 0.20 | |
| | | 1997 | 5 | | 0 | 1 | 1 | 0 | 0.20 | 0.20 | |
| | Vireo, Warbling | 1995 | 5 | | 0 | 1 | 1 | 0 | 0.20 | 0.20 | |
| | | 1997 | 5 | | 0 | | | 0 | 0.40 | 0.40 | |
| | Vireo, Yellow-throated | 1995 | 5 | 3 | 0 | 4 | 4 | 0 | 0.80 | 0.80 | |
| | | 1996 | 5 | | 0 | | | . 0 | | 0.60 | |
| | | 1997 | 5 | | | | 0 | 1 | 0.20 | 0.00 | 0.: |
| | Vulture, Turkey | 1997 | 5 | | | | | 0 | | 1.00 | |
| | Warbler, Black-and-white | 1995 | 5 | | | | | 0 | | 0.40 | |
| | | 1996 | 5 | | 0 | | | 0 | | 0.60 | |
| | | 1997 | 5 | | | | | 0 | | 0.20 | |
| | Warbler, Blackburnian | 1997 | 5 | | | | | | | 0.60 | |
| | Warbler, Cerulean | 1995 | 5 | | | | | 0 | | 0.40 | |
| • | | 1996 | 5 | | 0 | | | 0 | | 0.40 | |
| | | 1997 | 5 | | 0 | | | 0 | | 0.20 | |
| | Warbler, Chestnut-sided | 1996 | 5 | | 0 | | | 0 | | 0.20 | |
| | | 1997 | 5 | | 0 | | | 0 | | 0.20 | |
| | Warbler, Hooded | 1995 | | | 0 | | _ | 0 | | 0.20 | |
| | | 1996 | | | 0 | | | 0 | | 0.80 | |
| | | 1997 | | | | | | . 0 | | 0.40 | |
| | Warbler, Prairie | 1996 | | | | | • | | | 0.40 | |
| | | 1997 | 5 | | | | | 0 | | | |
| | Warbler, Tennessee | 1997 | | | | | | 0 | | 0.20 | |
| | Warbler, Yellow | 1996 | | | | | | | | 0.20 | |
| | | 1997 | | | | | | | | 0.40 | |
| | Warbler, Yellow-rumped | 1997 | 5 | | | | | 0 | | 0.20 | |
| | Waterthrush, Louisiana | 1996 | | | | | | | | 0.20 | |
| | Waxwing, Cedar | 1997 | | | | | | | | 1.20 | |
| | Woodcock, American | 1995 | | | | | | | | 0.20 | |
| | Woodpecker, Downy | 1995 | | | | | | | | 0.40 | |
| | | 1996 | | | | | | | | 0.20 | |
| | | 1997 | | | | | | | | 0.20 | |
| | Woodpecker, Hairy | 1995 | | | | | | | | 0.20 | |
| | | 1996 | 5 | 5 2 | . 0 |) 2 | 2 | 0 | | 0.40 | |
| | | 1997 | 5 | 5 1 | . 0 |) 1 | 1 | 0 | 0.20 | 0.20 | |

| | | | Total | Site | FO | Total | Site | FO | Ave Tot | Ave Site Birds | Ave FO |
|-----------------|---------------------------|------|-------|-------|-------|-------|-------|-------|--------------|-------------------|--------|
| Vegetation Type | Species | Year | Plots | Plots | Plots | Birds | Birds | Birds | Birds | | |
| | Woodpecker, Pileated | 1995 | 5 | 1 | 0 | 1 | 1 | 0 | 0.20 | 0.20 | 0 |
| | | 1996 | 5 | 1 | 0 | 1 | 1 | 0 | 0.20 0.20 | 0.20 | C |
| | | 1997 | 5 | 1 | 0 | 1 | 1 | 0 | 0.20 | 0.20 | (|
| | Woodpecker, Red-bellied | 1995 | 5 | 1 | 0 | 1 | 1 | 0 | 0.20 | 0.20 | |
| | Yellowthroat, Common | 1996 | . 5 | 1 | 0 | 1 | 1 | 0 | 0.20 | 0.20 | |
| | | 1997 | 5 | | 0 | 1 | 16 | 0 | 8.00 | 8.00 | (|
| SUCCESSIONAL | Blackbird, Red-winged | 1992 | 2 | 1 | 0 | 16 | 6 | 0 | 3.00 | 3.00 | (|
| OLD FIELD | | 1995 | 2 | 1 | 0 | 6 | 3 | 0 | 1.00 | 1.00 | (|
| | | 1996 | 2 | 1 | 0 | 3 | 5 | 0 | 2.00 | 2.00 | |
| | | 1997 | 2 | 1 | 0 | 5 | | 0 | 1.00 | 1.00 | |
| • | Bobolink | 1992 | 2 | 1 | 0 | 2 | | | 1.00 | 0.50 | 0.50 |
| | | 1995 | 2 | 1 | 1 | 2 | 1 | 1 | 1.00 | 1.00 | 0.5 |
| | | 1996 | 2 | 1 | 0 | 2 | 2 | 0 | 0.50 | 0.50 | · |
| | | 1997 | 2 | 1 | 0 | 1 | 1 | 0 | | 1.00 | |
| | Bunting, Indigo | 1995 | 2 | 1 | 0 | 2 | 2 | 0 | 1.00 | | |
| | | 1997 | 2 | 1 | 0 | 2 | 2 | 0 | 1.00 | 1.00 | |
| | Cardinal, Northern | 1995 | 2 | 1 | 0 | 1 | 1 | 0 | 0.50 | 0.50 | , |
| | Catbird, Gray | 1992 | 2 | 2 | 0 | 2 | 2 | 0 | 1.00 | 1.00 | |
| | • | 1996 | 2 | 1 | 0 | 1 | 1 | 0 | 0.50 | 0.50 | 1 |
| | | 1997 | 2 | 2 | 0 | 4 | 4 | 0 | 2.00 | 2.00 | |
| | Cowbird, Brown-headed | 1992 | 2 | 1 | 0 | 1 | 1 | 0 | 0.50 | 0.50 | |
| | | 1995 | 2 | 1 | 0 | 1 | 1 | 0 | 0.50 | 0.50 | |
| | | 1996 | 2 | 1 | 1 | 8 | 3 | 5 | 3.50 | 1.00 | 2.5 |
| | | 1997 | 2 | 2 | 0 | 3 | 3 | 0 | 1.50 | 1.50 | |
| | Crow, American | 1992 | 2 | 1 | 0 | 18 | 18 | 0 | 9.00 | 9.00 | (|
| | | 1995 | 2 | 1 | 0 | 2 | 2 | 0 | 1.00 | 1.00 | |
| | | 1996 | 2 | 1 | 0 | 1 | 1 | 0 | 0.50 | 0.50 | |
| | | 1997 | 2 | 1 | 0 | 3 | 3 | 0 | 1.50 | 1.50 | |
| | Crow, Fish | 1996 | 2 | 1 | 0 | 1 | 1 | 0 | 0.50 | 0.50 | (|
| | Cuckoo, Black-billed | 1992 | 2 | 1 | 0 | 1 | 1 | 0 | 0.50 | 0.50 | (|
| | | 1995 | 2 | 1 | 0 | 1 | 1 | 0 | 0.50 | 0.50 | |
| | Dove, Mourning | 1992 | 2 | 2 | 0 | 2 | 2 | 0 | 1.00 | 1.00 | (|
| | Flicker, Northern | 1992 | 2 | 1 | 0 | 4 | 4 | 0 | 1.50 | 1.50 | |
| | | 1995 | 2 | 2 | 0 | 4 | 4 | 0 | 1.50 | 1.50 | |
| | | 1996 | 2 | 2 | 0 | 2 | . 2 | 0 | 1.00 | 1.00 | |
| | | 1997 | 2 | 2 | 0 | 3 | 3 | 0 | 1.50 | 1.50 | |
| | Flycatcher, Alder | 1992 | 2 | | . 0 | | 1 | 0 | 0.50 | 0.50 | |
| | Flycatcher, Great-crested | 1992 | 2 | | 0 | | 1 | 0 | 0.50 | 0.50 | |
| | • | 1995 | 2 | 2 | 0 | 3 | 3 | 0 | 1.50 | 1.50 | |
| | | 1997 | 2 | | 0 | | 1 | 0 | 0.50 | 0.50 | 0.5 |
| | Flycatcher, Willow | 1995 | 2 | | 1 | | 0 | 1 | 0.50 | 0 | 0.5 |
| | Gnatcatcher, Blue-gray | 1995 | 2 | 1 | 0 | | 2 | 0 | 1.00 | 1.00 | |
| | | 1997 | 2 | 1 | 0 | | 1 | 0 | 0.50 | 0.50 | |
| | Goldfinch, American | 1992 | 2 | | 0 | | 1 | 0 | 0.50 | 0.50 | |
| | | 1995 | 2 | | 0 | | 3 | 0 | 1.50 | 1.50 | |
| | | 1996 | 2 | 1 | 0 | | 2 | 0 | 0.50 | 0.50 | |
| | | 1997 | 2 | | 0 | | 9 | 0 | 4.50 | 4.50 | |
| | Goose, Canada | 1997 | 2 | | 0 | | 57 | 0 | 28.50 | 28.50 | |
| | Grackle, Common | 1996 | 2 | 0 | 1 | . 7 | | 7 | 3,50 | 0 | 3.5 |
| | | 1997 | 2 | 1 | 0 | 1 | 1 | 0 | 0.50 | 0.50 | 1 |

| Vegetation Type | Species | Year | Total Plots | Site Plots | FO Plots | Total Birds | Site Birds | FO Birds | Ave Tot Birds | Ave Site Birds | Ave FO |
|-----------------|-------------------------------------|--------------|----------------|---------------|-------------|----------------|---------------|-------------|------------------|-------------------|--------|
| regetation Type | Grosbeak, Rose-breasted | 1995 | 2 | 1 | 0 | 3 | 3 | 0 | 1.50 | 1.50 | C |
| | Grosoeak, Rose-bleasted | 1996 | 2 | 1 | 0 | 1 | 1 | 0 | 0.50 | 0.50 | (|
| | | 1997 | 2 | 1 | 0 | 1 | 1 | 0 | 0.50 | 0.50 | (|
| | Hawk, Broad-winged | 1997 | 2 | 1 | 0 | 2 | 2 | 0 | 0.50 | 0.50 | (|
| | | 1992 | 2 | 1 | 0 | 2 | 2 | 0 | 1.00 | 1.00 | (|
| | Jay, Blue | 1995 | 2 | 1 | 0 | 1 | 1 | 0 | 0.50 | 0.50 | (|
| | | 1996 | 2 | 2 | 0 | 2 | 2 | 0 | 1.00 | 1.00 | (|
| | | 1997 | 2 | 1 | 0 | 1 | 1 | 0 | 0.50 | 0.50 | (|
| | Killdeer | 1992 | 2 | 1 | 0 | 2 | 2 | 0 | 1.00 | 1.00 | |
| | Kilideel | 1995 | 2 | 1 | 0 | 1 | 1 | 0 | 0.50 | 0.50 | |
| | | 1997 | 2 | 1 | 0 | 1 | 1 | 0. | 0.50 | 0.50 | |
| | Vindial Eastern | 1997 | 2 | 1 | 0 | | 1 | 0 | 0.50 | 0.50 | |
| | Kingbird, Eastern | 1992 | 2 | 1 | 0 | | 2 | 0 | 0.50 | 0.50 | |
| | Mallard | 1997 | 2 | 1 | 0 | | 1 | 0 | 0.50 | 0.50 | |
| | M. L. A. J. Footom | 1997 | 2 | 1 | 0 | | 1 | 0 | 0.50 | 0.50 | |
| | Meadowlark, Eastern | 1992 | 2 | 1 | 0 | | 2 | 0 | 1.00 | 1.00 | |
| | Mockingbird, Northern | 1992 | 2 | 1 | 0 | | 1 | 0 | 0.50 | | |
| | | 1996 | 2 | 1 | 0 | | 2 | 0 | 1.00 | 1.00 | |
| | | 1997 | 2 | 1 | 0 | | 1 | 0 | 0.50 | 0.50 | |
| | Nuthatch, White-breasted | 1995 | 2 | <u>:</u> | | | 2 | 0 | 0.50 | 0.50 | |
| | Nutnatch, white-breasted | 1996 | 2 | 1 | 0 | | 1 | 0 | 0.50 | 0.50 | |
| | | 1995 | 2 | 1 | | | 2 | | | 1.00 | |
| | Oriole, Northern | 1996 | 2 | 1 | | | 1 | . 0 | 0.50 | 0.50 | |
| | | 1990 | 2 | 2 | | | 4 | . 0 | | 2.00 | |
| | | 1995 | 2 | | | | | . 0 | | 1.00 | |
| | Ovenbird | 1996 | 2 | | | | 1 | 0 | | 0.50 | |
| | | 1997 | 2 | | | | 3 | 0 | | 1.50 | |
| | Out Pared | 1992 | 2 | | | | | 0 | | 1.00 | |
| | Owl, Barred | 1992 | 2 | | | | 1 | 0 | | 0.50 | |
| | Pewee, Eastern Wood | 1995 | | | | | 2 | 0 | | 1.00 | |
| | | 1995 | 2 | 1 | | | 2 | 0 | | 1.00 | |
| | | 1997 | 2 | | | | 2 | 0 | | 1.00 | |
| | Physical England | 1995 | 2 | | | | | 0 | | 0.50 | |
| | Phoebe, Eastern Redstart, American | 1992 | | | | | | - | | 1.00 | |
| | Redstart, American | 1996 | | | | | | | | 1.00 | |
| | | 1997 | | | | | | 0 | | 1.50 | |
| | Robin, American | 1992 | | | . 0 | | | | | 4.50 | |
| | Robin, American | 1995 | | | | | | | | 1.50 | |
| | | 1996 | | | | | | | | 2.50 | |
| | | 1997 | | | | | | | | 4.00 | |
| | Sparrow, Chipping | 1995 | | | | | | | | 1.00 | |
| | Sparrow, Chipping | 1995 | | | | | | | | 1.00 | |
| | | | | | | | | 0 | | 0.50 | |
| | Coom`Eiald | 1997 1995 | | | | | | | | 1.00 | |
| | Sparrow, Field | 1995 | | | | | | | | 1.00 | |
| | | | | | | | | | | 3.00 | |
| | C | 1997 | | | | | | | | 2.00 | |
| | Sparrow, Song | 1992 | | | | | | | | 1.00 | |
| | | 1995 | | | | | | | | | |
| | | 1996 | 2 | | (|) 4 | . 4 | | 2.00 | 2.00 | |

Installation Summary by Vegetation Groupings

| | | | Total | Site | FO | Total | Site | FO | Ave Tot | Ave Site Birds | Ave FO Birds |
|-----------------|--------------------------|------|-------|-------|-------|-------|-------|-------|---------|-------------------|-----------------|
| Vegetation Type | Species | Year | Plots | Plots | Plots | Birds | Birds | Birds | Birds | | |
| | Starling, European | 1992 | 2 | 1 | 0 | 5 | 5 | 0 | 2.50 | 2.50 | 0 |
| | Swallow, Barn | 1997 | 2 | 1 | 0 | 2 | 2 | 0 | 1.00 | 1.00 | 0 |
| | Tanager, Scarlet | 1992 | 2 | 1 | .0 | 2 | 2 | 0 | 1.00 | 0.50 | 0 |
| | | 1995 | . 2 | 1 | 0 | 1 | 1 | 0 | 0.50 | 1.00 | 0 |
| | | 1996 | 2 | 1 | 0 | 2 | 2 | 0 | 1.00 | | 0 |
| | | 1997 | 2 | 1 | 0 | 2 | 2 | 0 | 1.00 | 0.50 | 0 |
| | Thrush, Wood | 1992 | 2 | 1 | 0 | 1 | 1 | 0 | 0.50 | | 0 |
| | | 1995 | 2 | 1 | 0 | 2 | 2 | 0 | 1.00 | 1.00 | 0 |
| | | 1996 | 2 | 1 | 0 | . 2 | 2 | 0 | 1.00 | 1.00 | 0 |
| | | 1997 | 2 | 2 | 0 | 5 | 5 | 0 | 2.50 | 2.50 | 0 |
| | Titmouse, Tufted | 1995 | 2 | 1 | 0 | 1 | 1 | 0 | 0.50 | 0.50 | |
| | | 1996 | 2 | 1 | 0 | 1 | 1 | 0 | 0.50 | 0.50 | 0 |
| | Towhee, Rufous-sided | 1995 | 2 | 2 | 0 | 2 | 2 | 0 | 1.00 | 1.00 | 0 |
| | | 1996 | 2 | 1 | 0 | 1 | 1 | 0 | 0.50 | 0.50 | 0 |
| | | 1997 | 2 | 1 | 0 | 3 | 3 | 0 | 1.50 | 1.50 | 0 |
| | Turkey, Wild | 1997 | 2 | 1 | 0 | 1 | 1 | 0 | 0.50 | 0.50 | 0 |
| | Veery | 1992 | 2 | 1 | 0 | 1 | 1 | 0 | 0.50 | 0.50 | 0 |
| | Vocay | 1995 | 2 | 1 | 0. | 1 | 1 | 0 | 0.50 | 0.50 | 0 |
| | | 1996 | 2 | 2 | 0 | 4 | 4 | 0 | 2.00 | 2.00 | 0 |
| , | • | 1997 | 2 | 2 | 0 | 4 | 4 | 0 | 2.00 | 2.00 | 0 |
| | Vireo, Red-eyed | 1992 | 2 | 1 | 0 | 3 | 3 | 0 | 1.50 | 1.50 | 0 |
| | vince, ites eyes | 1995 | 2 | 2 | 0 | 2 | 2 | 0 | 1.00 | 1.00 | . 0 |
| | | 1996 | 2 | 1 | 0 | 1 | 1 | 0 | 0.50 | 0.50 | 0 |
| | | 1997 | 2 | 1 | 0 | 4 | 4 | 0 | 2.00 | 2.00 | 0 |
| | Vireo, Warbling | 1992 | 2 | 1 | 0 | 2 | 2 | 0 | 1.00 | 1.00 | 0 |
| | Vireo, White-eyed | 1995 | 2 | 0 | 1 | 1 | 0 | 1 | 0.50 | 0 | 0.50 |
| • | Vireo, Yellow-throated | 1992 | 2 | 1 | 0 | 1 | 1 | 0 | 0.50 | 0.50 | 0 |
| | , 1100, 1010 H 1100 H | 1995 | 2 | 1 | 0 | 2 | 2 | 0 | 1.00 | 1.00 | 0 |
| | | 1997 | 2 | 1 | 0 | 1 | 1 | 0 | 0.50 | 0.50 | C |
| | Vulture, Turkey | 1997 | 2 | 0 | 1 | 1 | 0 | 1 | 0.50 | 0.00 | 0.50 |
| | Warbler, Black-and-white | 1992 | 2 | 1 | 0 | . 1 | 1 | 0 | 0.50 | 0.50 | C |
| | . | 1995 | 2 | 1 | 0 | 1 | 1 | 0 | 0.50 | 0.50 | 0 |
| | | 1997 | 2 | 1 | 0 | 1 | 1 | 0 | 0.50 | 0.50 | 0 |
| | Warbler, Blue-winged | 1995 | 2 | 1 | 0 | 3 | 3 | 0 | 1.50 | 1.50 | 0 |
| | William William | 1996 | 2 | 1 | 0 | 1 | 1 | 0 | 0.50 | 0.50 | 0 |
| | | 1997 | 2 | | 0 | 2 | 2 | 0 | 1.00 | 1.00 | 0 |
| | Warbler, Cerulean | 1992 | 2 | 1 | 0 | 3 | 3 | 0 | 1.00 | 1.00 | 0 |
| | Warbia, Column | 1996 | 2 | 0 | 1 | 2 | 0 | 2 | 1.00 | 0 | 1.00 |
| | | 1997 | 2 | | 0 | 2 | 2 | 0 | 1.00 | 1.00 | 0 |
| | Warbler, Chestnut-sided | 1996 | 2 | | 0 | 1 | 1 | 0 | 0.50 | 0.50 | O |
| | Walter, Chesalar stocs | 1997 | 2 | | 0 | 3 | 3 | 0 | 1.50 | 1.50 | C |
| | Warbler, Golden-winged | 1997 | 2 | | 0 | 1 | 1 | 0 | 0.50 | 0.50 | C |
| | Warbler, Prairie | 1995 | 2 | | 0 | 4 | 4 | 0 | 2.00 | 2.00 | |
| | Walled, I tallie | 1996 | 2 | 1 | 0 | 1 | 1 | 0 | 0.50 | 0.50 | C |
| | | 1997 | 2 | | 0 | 5 | 5 | 0 | 2.50 | 2.50 | |
| | Warhlar Vallow | 1997 | 2 | | 0 | 4 | 4 | 0 | 2.00 | 2.00 | |
| | Warbler, Yellow | 1992 | 2 | | 0 | 3 | | 0 | 1.50 | 1.50 | |
| | | 1995 | 2 | 2 | 0 | 4 | 4 | 0 | 2.00 | 2.00 | |
| | | 1990 | 2 | | | | | | | | |
| | ` | 1997 | 2 | . 2 | . 0 | 7 | 7 | 0 | 3.50 | 3.50 | C |

Installation Summary by Vegetation Groupings

| Vegetation Type | Species | Year | Total Plots | Site Plots | FO Plots | Total Birds | Site Birds | FO Birds | Ave Tot Birds | Ave Site Birds | Ave FO Birds |
|-----------------|-------------------------|--------------|----------------|---------------|-------------|----------------|---------------|-------------|------------------|-------------------|-----------------|
| vegetation Type | | 1995 | 2 | 1 | 0 | 1 | 1 | 0 | 0.50 | 0.50 | 0 |
| | Woodpecker, Downy | 1997 | 2 | 1 | 0 | 1 | 1 | 0 | 0.50 | 0.50 | 0 |
| | Washashas Hoise | 1992 | 2 | 1 | 0 | 1 | 1 | 0 | 0.50 | 0.50 | 0 |
| | Woodpecker, Hairy | 1996 | 2 | 1 | 0 | 1 | 1 | 0 | 0.50 | 0.50 | 0 |
| | | 1997 | 2 | 1 | 0 | 1 | 1 | 0 | 0.50 | 0.50 | 0 |
| | NY 1 - 1 - Dilected | 1997 | 2 | 1 | 0 | 1 | 1 | 0 | 0.50 | 0.50 | 0 |
| | Woodpecker, Pileated | 1992 | 2 | | 0 | 1 | 1 | 0 | 0.50 | 0.50 | 0 |
| | Woodpecker, Red-bellied | 1992 | 2 | 1 | 0 | 1 | 1 | 0 | 0.50 | 0.50 | 0 |
| | NV IVenes | 1996 | 2 | | 0 | 2 | 2 | 0 | 1.00 | 1.00 | 0 |
| | Wren, House | 1992 | 2 | 2 | 0 | 4 | 4 | 0 | 2.00 | 2.00 | 0 |
| | Yellowthroat, Common | 1995 | 2 | 2 | 0 | 5 | 5 | 0 | 2.50 | 2.50 | 0 |
| | | | 2 | _ | 0 | 3 | 3 | 0 | 1.50 | 1.50 | 0 |
| | | 1996 1997 | 2 | 2 | 0 | 5 | 5 | 0 | 2.50 | 2.50 | 0 |

Appendix G: West Point Guild Summary Information

| ~. | Could summaries for | West Dains | enecial use plat | s, by neotropica | al status. |
|----------|-----------------------|------------|------------------|--------------------|------------|
| T-11- C1 | Carild commonstac for | West Point | Special use pro- | 13, Dy McOtt opies | |

| Neotropical Status | Year | Total Plots | Site Plots | FO Plots | Total Spp | Site Spp | FO Spp | Total Birds | Site Birds | FO Birds | Ave Tot Birds | Ave Site Birds | Ave FO Birds |
|--------------------|--------------|----------------|---------------|-------------|--------------|-------------|-----------|----------------|---------------|-------------|------------------|-------------------|-----------------|
| | 1992 | 2 | 2 | 0 | 15 | 15 | 0 | 29 | 29 | 0 | 14.00 | 14.00 | 0 |
| Class A | 1995 | 10 | 10 | 0 | 31 | 31 | 0 | 168 | 168 | 0 | 16.40 | 16.40 | 0 |
| | 1995 | 10 | 10 | 1 | 29 | 29 | 1 | 175 | 173 | 2 | 17.10 | 16.90 | 0.20 |
| | 1996 | 10 | 10 | 0 | 33 | 33 | 0 | 239 | 239 | 0 | 23.70 | 23.70 | 0 |
| | 1997 | 2 | 2 | 1 | 9 | 9 | 1 | 42 | 41 | 1 | 20.50 | 20.00 | 0.50 |
| Class B | 1992 | 10 | 10 | 0 | 15 | 15 | 0 | 74 | 74 | 0 | 7.20 | 7.20 | 0 |
| | 1995 | 10 | 10 | 3 | 11 | 10 | 3 | 68 | 61 | 7 | 6.10 | 5.40 | 0.70 |
| | 1997 | 10 | 10 | 0 | 14 | 14 | 0 | 100 | 100 | 0 | 9.80 | 9.80 | 0 |
| Resident | 1992 | 2 | 2 | 0 | 6 | 6 | 0 | 26 | 26 | 0 | 12.50 | 12.50 | 0 |
| Resident | | 10 | 10 | 1 | 14 | 14 | 1 | 44 | 43 | 1 | 4.30 | 4.20 | 0.10 |
| • | 1995 1996 | 10 | 10 | 1 | 11 | 11 | 1 | 49 | 42 | 7 | 4.80 | 4.10 | 0.70 |
| | 1997 | 10 | 10 | 1 | 16 | 16 | 1 | 141 | 120 | 21 | 13.80 | 11.70 | · 2.10 |

| m-1-1- C2 | Cuild cummaries fo | r West Point special | use plots, | by nest location. |
|-----------|--------------------|----------------------|------------|-------------------|
| | | | | |

| Table G2. Guild summaries f | | Total | Site | FO | Total | Site | FO | Total | Site | FO | Ave Tot | Ave Site Birds | Ave FO Birds |
|-----------------------------|------|-------|-------|-------|-------|------|-----|-------|-------|-------|---------|-------------------|-----------------|
| Nest Location | Year | Plots | Plots | Plots | Spp | Spp | Spp | Birds | Birds | Birds | Birds | | |
| GROUND | 1992 | 2 | 2 | 1 | 5 | 5 | 1 | 11 | 10 | 1 | 5.00 | 4.50 | 0.50 |
| OKOOND | 1995 | 10 | 10 | 0 | 12 | 12 | 0 | · 48 | 48 | 0 | 4.80 | 4.80 | 0 |
| | 1996 | 10 | 10 | 0 | 10 | 10 | 0 | 51 | 51 | 0 | 5.00 | 5.00 | 0 |
| | 1997 | 10 | 10 | 1_ | 14 | 14 | 1 | 153 | 132 | 21 | 15.30 | 13.20 | 2.10 |
| MAN-MADE STRUCTURE | 1995 | 10 | 3 | 0 | 1 | 1 | 0 | 4 | 4 | 0 | 0.40 | 0.40 | 0 |
| Mill in De state a state | 1997 | 10 | 3_ | 0 | 2 | 2 | 0 | 4 | 4 | 0 | 0.40 | 0.40 | 0 |
| REED | 1992 | 2 | 1 | 0 | 1 | 1 | 0 | 16 | 16 | 0 | 8.00 | 8.00 | 0 |
| Kabb | 1995 | 10 | 1 | 0 | 1 | 1 | 0 | 6 | 6 | 0 | 0.60 | 0.60 | 0 |
| | 1996 | 10 | 1 | 1 | 1 | 1 | 1 | 4 | 3 | 1 | 0.30 | 0.20 | 0.10 |
| | 1997 | 10 | 2 | 0 | 1 | 1 | 0 | 8 | 8 | 0 | 0.70 | 0.70 | 0 |
| SHRUB | 1992 | 2 | 2 | 0 | 6 | 6 | 0 | 16 | 16 | 0 | 8.00 | 8.00 | 0 |
| Jimob | 1995 | 10 | 9 | 0 | 11 | 11 | 0 | 44 | 44 | 0 | 4.40 | 4.40 | 0 |
| | 1996 | 10 | 10 | 0 | 10 | 10 | 0 | 52 | 52 | 0 | 5.10 | 5.10 | 0 |
| | 1997 | 10 | 10 | 0 | 12 | 12 | 0 | 87 | 87 | 0 | 8.70 | - 8.70 | 0 |
| SNAG | 1992 | 2 | 1 | 0 | 3 | 3 | 0 | 7 | 7 | 0 | 3.00 | 3.00 | 0 |
| SILVAO | 1995 | 10 | 8 | 1 | 6 | 6 | 1 | 21 | 20 | 1 | 2.00 | 1.90 | 0.10 |
| | 1996 | 10 | 7 | 0 | 3 | 3 | 0 | 12 | 12 | 0 | 1.10 | 1.10 | 0 |
| | 1997 | 10 | . 8 | 0 | 6 | 6 | 0 | 14 | 14 | 0 | 1.40 | 1.40 | 0 |
| WOODY LOWER CANOPY | 1992 | 2 | 2 | 0 | 5 | 5 | 0 | 16 | 16 | 0 | 8.00 | 8.00 | 0 |
| WOOD! 20 W2K OIL OIL | 1995 | 10 | 10 | 0 | 12 | 12 | 0 | 64 | 64 | 0 | 6.10 | 6.10 | C |
| | 1996 | 10 | 10 | 1 | 12 | 12 | 1 | 73 | 66 | 7 | 6.90 | 6.20 | 0.70 |
| | 1997 | 10 | 10 | 0 | 10 | 10 | 0 | 70 | 70 | 0 | 6.80 | 6.80 | C |
| WOODY UPPER CANOPY | 1992 | 2 | 2 | 0 | 10 | 10 | 0 | 31 | 31 | 0 | 15.00 | 15.00 | C |
| | 1995 | 10 | 10 | 0 | 17 | 17 | 0 | 99 | 99 | 0 | 9.60 | 9.60 | C |
| | 1996 | 10 | 10 | 3 | 15 | 14 | 3 | 100 | 92 | 8 | 9.60 | . 8.80 | 0.80 |
| | 1997 | 10 | 10 | 0 | 18 | 18 | 0 | 144 | 144 | 0 | 14.00 | 14.00 | 0 |

| Table G3. Guild sum | Year | Total Plots | Site Plots | FO Plots | Total Spp | Site Spp | FO Spp | Total Birds | Site Birds | FO Birds | Ave Tot Birds | Ave Site Birds | Ave FC Bird |
|---------------------|------|----------------|---------------|-------------|--------------|-------------|-----------|----------------|---------------|-------------|------------------|-------------------|----------------|
| CAVITY | 1992 | 2 | 1 | 0 | 5 | 5 | 0 | 9 | 9 | 0 | 4.00 | 4.00 | (|
| CAVIII | 1995 | 10 | 10 | 1 | 11 | 11 | 1 | 43 | 42 | 1 | 4.10 | 4.00 | 0.10 |
| | 1996 | 10 | 10 | 0 | 9 | 9 | 0 | 42 | 42 | 0 | 4.10 | 4.10 | (|
| | 1997 | 10 | 10 | 0 | 11_ | - 11 | 0 | 48 | 48 | 0 | 4.50 | 4.50 | |
| CUP | 1992 | 2 | 2 | 1 | 19 | 19 | 1 | 78 | 77 | 1 | 38.50 | 38.00 | 0.5 |
| COI | 1995 | 10 | 10 | 0 | 40 | 40 | 0 | 193 | 193 | 0 | 18.90 | 18.90 | |
| | 1996 | 10 | 10 | 3 | 34 | 34 | 3 | 195 | 185 | 10 | 18.70 | 17.70 | 1.0 |
| | 1997 | 10 | 10 | 0 | 43 | 43 | 0 | 272 | 272 | 0 | 27.00 | 27.00 | |
| OVEN | 1995 | 10 | 4 | 0 | 1 | 1 | 0 | . 5 | 5 | 0 | 0.50 | 0.50 | • |
| OVEN | 1996 | 10 | 6 | 0 | 1 | 1 | 0 | 10 | 10 | 0 | 1.00 | 1.00 | • |
| | 1997 | 10 | 7 | 0 | 1 | 1 | 0 | 11 | 11 | 0 | 1.10 | 1.10 | |
| PARASITIC | 1992 | 2 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0.50 | 0.50 | |
| TAKASITIC | 1995 | 10 | 7 | 0 | 1 | 1 | 0 | 9 | 9 | 0 | 0.90 | 0.90 | |
| | 1996 | 10 | 6 | 1 | 1 | 1 | 1 | 13 | 8 | 5 | 1.20 | . 0.70 | 0.5 |
| | 1997 | 10 | 10 | 0 | 1 | 1 | 0 | 17 | 17 | 0 | 1.60 | 1.60 | |
| PENDANT | 1995 | 10 | 7 | 0 | 1 | 1 | 0 | 12 | 12 | 0 | 1.20 | 1.20 | |
| | 1996 | 10 | 7 | 0 | 2 | 2 | 0 | 11 | 11 | 0 | 1.10 | 1.10 | |
| | 1997 | 10 | 9 | 0 | 1 | 1 | 0 | 22 | 22 | 0 | 2.20 | 2.20 | |
| PLATFORM | 1992 | 2 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0.50 | 0.50 | |
| | 1995 | 10 | 3 | 0 | 3 | 3 | 0 | 4 | 4 | 0 | 0.40 | 0.40 | |
| | 1996 | 10 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 1 | 0.20 | 0.10 | 0.1 |
| | 1997 | 10 | 1 | 0 | 1 | 1 | 0 | 2 | 2 | 0 | 0.10 | 0.10 | |
| SAUCER | 1992 | 2 | 2 | 0 | 2 | 2 | 0 | 4 | 4 | 0 | 2.00 | 2.00 | |
| | 1995 | 10 | 9 | 0 | 1 | 1 | 0 | 18 | · 18 | 0 | 1.70 | 1.70 | |
| | 1996 | 10 | 9 | 0 | 1 | 1 | 0 | 18 | 18 | 0 | 1.60 | 1.60 | |
| | 1997 | . 10 | 8 | 0 | 1 | 1 | 0 | 21 | 21 | 0 | 2.10 | 2.10 | |
| SCRAPE | 1992 | 2 | 1 | 0 | 2 | 2 | 0 | 4 | 4 | 0 | 1.50 | 1.50 | |
| | 1995 | 10 | 2 | 0 | 2 | 2 | 0 | 2 | 2 | 0 | 0.20 | 0.20 | |
| | 1996 | 10 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0.10 | 0.10 | |
| | 1997 | 10 | 2 | 1 | 4 | 4 | 1 | 87 | 66 | 21 | 8.70 | 6.60 | 2.1 |

| Table G4. Guild summar | ies for West I Year | Point spe Total Plots | Site Plots | FO FO Plots | Total Spp | Site Spp | FO Spp | Total Birds | Site Birds | FO Birds | Ave Tot Birds | Ave Site Birds | Ave FO Birds |
|------------------------|------------------------|-----------------------------|---------------|-------------------|--------------|--------------|-----------|----------------|---------------|-------------|------------------|-------------------|-----------------|
| Food | | | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0.10 | 0.10 | 0 |
| AQUATIC INVERTS | 1995 | 10 | 3 | 0 | 1 | 1 | 0 | 4 | 4 | 0 | 0.40 | 0.40 | 0 |
| | 1996 | 10 | 1 | 0 | 1 | 1 | 0 | 2 | 2 | 0 | 0.20 | 0.20 | 0 |
| | 1997 | 10 | 1 | 0 | 1 | - | 0 | 2 | 2 | 0 | 0.20 | 0.20 | 0 |
| FRUIT | 1995 | 10 | - | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0.10 | 0.10 | 0 |
| | 1996 | 10 | 1 | | 1 | 1 | 0 | 10 | 10 | 0 | 1.00 | 1.00 | 0 |
| | 1997 | 10 | 4 | 0 | 1 | | 0 | 1 | 1 | 0 | 0.10 | 0.10 | 0 |
| GREENS | 1995 | 10 | 1 | 0 | - | | 1 | 84 | 63 | 21 | 8.40 | 6.30 | 2.10 |
| | 1997 | 10 | 2 | 1 | 1 | 26 | 1 | 90 | 89 | 1 | 44.00 | 43.50 | 0.50 |
| NSECTS | 1992 | 2 | . 2 | 1 | 26 | | 1 | | 274 | 0 | 26.70 | 26.70 | . 0 |
| | 1995 | 10 | 10 | 0 | 54 | 54 | 0 | 274 | | | 27.00 | 25.50 | 1.50 |
| | 1996 | 10 | 10 | 3 | 46 | 46 | 4 | 281 | 266 | 15 | | | |
| | 1997 | 10 | 10 | 0 | 56 | 56 | 0 | 370 | - 370 | 0 | 36.40 | 36.40 | 0 |
| SEEDS | 1992 | 2 | . 2 | 0 | 3 | 3 | 0 | 5 | 5 | 0 | 2.00 | 2.00 | 0 |
| SELEDS . | 1995 | 10 | 3 | 0 | 1 | 1 | 0 | 5 | 5 | 0 | 0.50 | . 0.50 | 0 |
| | 1996 | 10 | 3 | 0 | 2 | 2 | 0 | 5 | 5 | 0 | 0.40 | 0.40 | 0 |
| | 1997 | 10 | 2 | 0 | 3 | 3 | 0 | 12 | 12 | 0 | 1.20 | 1.20 | 0 |
| | 1997 | 2 | 1 | 0 | 1 | 1 | 0 | 2 | 2 | 0 | 1.00 | 1.00 | 0 |
| SMALL MAMMALS | 1995 | 10 | 2 | ı | 2 | 2 | 1 | 3 | 2 | 1 | 0.30 | 0.20 | 0.10 |
| | | 10 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 0.10 | 0 | 0.10 |
| | 1996 1997 | 10 | 1 | 0 | 1 | 1 | 0 | 2 | 2 | 0 | 0.10 | 0.10 | 0 |

Table G5. Guild summaries for West Point special use plots, by feeding substrate.

| Substrate | Year | Total Plots | Site Plots | FO Plots | Total Spp | Site Spp | FO Spp | Total Birds | Site Birds | FO Birds | Ave Tot Birds | Ave Site Birds | Ave FO Birds |
|-----------|------|----------------|---------------|-------------|--------------|-------------|-----------|----------------|---------------|-------------|------------------|-------------------|-----------------|
| AIR | 1992 | 2 | 1 | 0 | 5 | 5 | 0 | 9 | 9 | 0 | 4.50 | 4.50 | 0 |
| | 1995 | 10 | 10 | 0 | 9 | 9 | 0 | 66 | 66 | 0 | 6.40 | 6.40 | 0 |
| | 1996 | 10 | 9 | 0 | 6 | 6 | 0 | 63 | 63 | 0 | 6.00 | 6.00 | 0 |
| | 1997 | 10 | 10 | 0 | 9 | 9 | 0 | 90 | 90 | 0 | 9.00 | 9.00 | 0 |
| BARK | 1992 | 2 | 1 | 0 | 3 | 3 | 0 | 3 | 3 | 0 | 1.50 | 1.50 | 0 |
| | 1995 | 10 | 9 | 0 | 7 | 7 | 0 | 23 | 23 | 0 | 2.20 | 2.20 | 0 |
| | 1996 | 10 | 8 | 0 | 5 | 5 | 0. | 17 | 17 | 0 | 1.70 | 1.70 | 0 |
| | 1997 | 10 | 10 | 0 | 6 | 6 | 0 | 27 | 27 | 0 | 2.50 | 2.50 | 0 |
| FOLIAGE | 1992 | 2 | 2 | 0 | 7 | 7 | 0 | 16 | 16 | 0 | 7.50 | 7.50 | 0 |
| | 1995 | 10 | 10 | 0 | 22 | 22 | 0 | 80 | 80 | 0 | 7.80 | 7.80 | 0 |
| | 1996 | 10 | 10 | 1 | 19 | 19 | 1 | 74 | 72 | . 2 | 7.20 | 7.00 | 0.20 |
| | 1997 | 10 | 10 | 0 | 23 | 23 | 0 | 118 | 118 | 0 | 11.60 | 11.60 | 0 |
| GROUND | 1992 | 2 | 2 | 1 | 14 | 14 | 1 | 67 | 66 | 1 | 33.00 | 32.50 | 0.50 |
| | 1995 | 10 | 10 | 1 | 22 | 22 | 1 | 117 | 116 | 1 | 11.50 | - 11.40 | 0.10 |
| | 1996 | 10 | 10 | 3 | 21 | 20 | 4 | 138 | 124 | 14 | 13.10 | 11.70 | 1.40 |
| | 1997 | 10 | 10 | 0 | 23 | 23 | 0 | 160 | 160 | 0 | 15.70 | 15.70 | 0 |
| WATER | 1992 | 2 | 1 | 0 | I | 1 | 0 | 2 | 2 | 0 | 0.50 | 0.50 | 0 |
| | 1997 | 10 | 2 | 1_ | 2 | 2 | 1 | 85 | 64 | 21 | 8.50 | 6.40 | 2.10 |

| Table G6. Guild summar | ies for West I | Total | Site | FO | Total | Site | FO | Total | Site | FO | Ave Tot | Ave Site | Ave FO Birds |
|------------------------|----------------|-------|-------|-------|-------|------|-----|------------|-------|-------|---------|----------|-----------------|
| Technique | Year | Plots | Plots | Plots | Spp | Spp | Spp | Birds | Birds | Birds | Birds | Birds | |
| AERIAL FORAGING | 1997 | 10 | 1 | 0 | 1 | 1 | 0 | 2 | 2 | 0 | 0.20 | 0.20 | 0 |
| BARK GLEANER | 1992 | 2 | 1 | 0 | 3 | 3 | 0 | 3 | 3 | 0 | 1.50 | 1.50 | 0 |
| DARK ODDING | 1995 | 10 | 9 | 0 | 7 | 7 | 0 | 23 | 23 | 0 | 2.20 | 2.20 | |
| | 1996 | 10 | 8 | 0 | 5 | 5 | 0 | 17 | 17 | 0 | 1.70 | 1.70 | 0 |
| | 1997 | 10 | 10 | 0 | 6 | 6 | 0 | 27 | 27 | 0 | 2.50 | 2.50 | 0 |
| DABBLER | 1992 | 2 | 1 | 0 | 1 | 1 | 0 | 2 | 2 | 0 | 0.50 | 0.50 | 0 |
| DADDEDA | 1997 | 10 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0.10 | 0.10 | 0 |
| FOLIAGE BROWSER | 1995 | 10 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0.10 | 0.10 | 0 |
| FOLIAGE GLEANER | 1992 | 2 | 2 | 0 | 6 | 6 | 0 | 15 | 15 | 0 | 7.00 | 7.00 | 0 |
| 1 ODNICE CELL | 1995 | 10 | 10 | 0 | 20 | 20 | 0 | 7 7 | 7.7 | 0 | 7.50 | 7.50 | 0 |
| | 1996 | 10 | 10 | 1 | 18 | 18 | 1 | 73 | 71 | 2 | 7.10 | 6.90 | 0.20 |
| • | 1997 | 10 | 10 | 0 | 23 | 23 | 0 | 118 | 118 | 0 | 11.60 | 11.60 | 0 |
| GROUND GLEANER | 1992 | 2 | 2 | 1 | 12 | 12 | 1 | 47 | 46 | 1 | 23.00 | 22.50 | 0.50 |
| OROUND GLEATILER | 1995 | 10 | 10 | 0 | 19 | 19 | 0 | 110 | 110 | 0 | 10.80 | · 10.80 | 0 |
| | 1996 | 10 | 10 | 2 | 19 | 19 | 3 | 130 | 117 | 13 | 12.40 | 11.10 | 1.30 |
| | 1997 | 10 | 10 | 0 | 21 | 21 | 0 | 153 | 153 | 0 | 15.10 | 15.10 | 0 |
| HAWKER | 1992 | 2 | 1 | 0 | 2 | 2 | 0 | 2 | 2 | 0 | 1.00 | 1.00 | 0 |
| HAWKER | 1995 | 10 | 10 | 0 | 5 | 5 | 0 | 31 | 31 | 0 | 3.00 | 3.00 | 0 |
| | 1996 | 10 | 8 | 0 | 3 | 3 | 0 | 18 | 18 | 0 | 1.80 | 1.80 | 0 |
| | 1997 | 10 | 10 | 0 | 5 | 5 | 0 | 33 | 33 | 0 | 3.30 | 3.30 | 0 |
| HIGH PATROL | 1995 | 10 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0.10 | 0.10 | C |
| montanto | 1996 | 10 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 0.10 | 0 | 0.10 |
| HOVER GLEANER | 1992 | 2 | 1 | 0 | 3 | 3 | 0 | 7 | 7 | 0 | 3.50 | 3.50 | C |
| | 1995 | 10 | 10 | 0 | 4 | 4 | 0 | 35 | 35 | 0 | 3.40 | 3.40 | . 0 |
| • | 1996 | 10 | 9 | 0 | 3 | 3 | 0 | 45 | 45 | 0 | 4.20 | 4.20 | C |
| | 1997 | 10 | 9 | 0 | 3 | 3 | 0 | 55 | 55 | 0 | 5.50 | 5.50 | C |
| LOW PATROL | 1992 | 2 | 1 | 0 | 1 | 1 | 0 | 2 | 2 | 0 | 1.00 | 1.00 | . 0 |
| 20 | 1995 | 10 | 1 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 0.20 | 0.10 | 0.10 |
| SCAVENGER | 1992 | 2 | 1 | 0 | 2 | 2 | 0 | 19 | 19 | 0 | 9.50 | 9.50 | C |
| - | 1995 | 10 | 3 | 0 | 2 | 2 | 0 | 6 | 6 | 0 | 0.60 | 0.60 | C |
| | 1996 | 10 | 4 | 0 | 2 | 2 | 0 | 8 | 8 | 0 | 0.70 | 0.70 | C |
| | 1997 | 10 | 3 | 0 | 1 | 1 | 0 | 5 | 5 | 0 | 0.50 | 0.50 | (|
| SURFACE DIPS | 1997 | 10 | 2 | 1 | 1 | 1 | 1 | 84 | 63 | 21 | 8.40 | 6.30 | 2.10 |
| awio o prop | 1007 | 10 | 1 | 0 | 1 | 1 | 0 | 2 | 2 | 0 | 0.10 | 0.10 | (|

SWOOPER

0.10

0.10

| Table G7. Guild summa | Year | Total Plots | Site Plots | FO Plots | Total Spp | Site Spp | FO Spp | Total Birds | Site Birds | FO Birds | Ave Tot Birds | Ave Site Birds | Ave FO Birds |
|-----------------------|------|-------------|---------------|-------------|--------------|-------------|-----------|----------------|---------------|-------------|------------------|-------------------|-----------------|
| FOREST | 1992 | 2 | 2 | 0 | 18 | 18 | 0 | 55 | 55 | 0 | 26.50 | 26.50 | 0 |
| FUREST | 1995 | 10 | 10 | 1 | 37 | 37 | 1 | 186 | 185 | 1 | 17.90 | 17.80 | 0.10 |
| | 1996 | 10 | 10 | 2 | 32 | 31 | 2 | 193 | 190 | 3 | 18.50 | 18.20 | 0.30 |
| | 1997 | 10 | 10 | 0 | 36 | 36 | 0_ | 232 | 232 | 0 | 22.70 | 22.70 | 0 |
| FOREST EDGE | 1992 | 2 | 2 | 0 | 4 | 4 | 0 | 8 | 8 | 0 | 4.00 | 4.00 | 0 |
| POREST EDGE | 1995 | 10 | 10 | 0 | 7 | 7 | 0 | 50 | 50 | 0 | 5.00 | 5.00 | 0 |
| | 1996 | 10 | 10 | 1 | 6 | 6 | 1 | 49 | 44 | 5 | 4.70 | 4.20 | 0.50 |
| | 1997 | 10 | 10 | 0 | 7 | 7 | 0 | 80 | 80 | 0 | 7.90 | 7.90 | 0 |
| FRESHWATER | 1992 | 2 | 1 | 0 | 1 | 1 | 0 | 2 | 2 | 0 | 0.50 | 0.50 | 0 |
| PRESIDENT | 1997 | 10 | 1 | 0 | 2 | 2 | 0 | 3 | 3 | 0 | 0.30 | 0.30 | |
| GRASSLAND | 1992 | 2 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0.50 | 0.50 | 0 |
| OKASSEAND | 1995 | 10 | 4 | 0 | 2 | 2 | 0 | 9 | 9 | 0 | 0.90 | 0.90 | |
| | 1996 | 10 | 3 | 1 | 2 | 2 | 1 | 13 | 6 | 7 | 1.20 | 0.50 | 0.70 |
| | 1997 | 10 | 3 | 0 | 3 | 3 | 0 | 13 | 13 | 0 | 1.30 | . 1.30 | C |
| RIPARIAN | 1992 | 2 | 1 | 1 | 2 | 2 | 1 | 9 | 8 | 1 | 4.50 | 4.00 | 0.50 |
| Kil Akti ii v | 1995 | 10 | 7 | 0 | 5 | 5 | 0 | 12 | 12 | 0 | 1.20 | 1.20 | (|
| | 1996 | 10 | 7 | 0 | 4 | 4 | 0 | 15 | 15 | 0 | 1.50 | 1.50 | (|
| | 1997 | 10 | 6 | 0 | 5 | 5 | 0 | 21 | 21 | 0 | 2.10 | 2.10 | (|
| SHORELINE | 1992 | 2 | 1 | 0 | 1 | 1 | 0 | 2 | 2 | 0 | 1.00 | 1.00 | (|
| SHOREENE | 1995 | 10 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0.10 | 0.10 | (|
| | 1997 | 10 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0.10 | 0.10 | (|
| SHRUBLAND | 1992 | 2 | 2 | 0 | 2 | 2 | 0 | 4 | 4 | 0 | 2.00 | 2.00 | (|
| | 1995 | 10 | ٠ 5 | 0 | 7 | 7 | 0 | 22 | 22 | 0 | . 2.20 | 2.20 | (|
| | 1996 | 10 | 5 | 0 | 6 | 6 | 0 | 18 | 18 | 0 | 1.80 | 1.80 | (|
| | 1997 | 10 | 9 | 0 | 7 | 7 | 0 | 38 | 38 | 0 | 3.80 | 3.80 | |
| SWAMP/MARSH | 1992 | 2 | 1 | 0 | 1 | 1 | 0 | 16 | 16 | 0 | 8.00 | 8.00 | (|
| | 1995 | 10 | 1 | 0 | 1 | 1 | 0 | 6 | 6 | 0 | 0.60 | 0.60 | (|
| | 1996 | 10 | 1 | i | 1 | 1 | 1 | 4 | 3 | 1 | 0.30 | 0.20 | 0.10 |
| | 1997 | 10 | 3 | 1 | 2 | 2 | 1 | 92 | 71 | 21 | 9.10 | 7.00 | 2.10 |

Appendix H: West Point Guild Summary Information by Vegetation Type

| able H1. Vegetation | Neotropical | Year | Total Plots | Site Plots | FO Plots | Total Spp | Site Spp | FO Spp | Total Birds | Site Birds | FO Birds | Ave Tot Birds | Ave Site Birds | Ave FO Bird |
|---------------------|-------------|------|----------------|---------------|-------------|--------------|-------------|-----------|----------------|---------------|-------------|------------------|-------------------|----------------|
| egetation Type | Status | | | 1 | 0 | 9 | 9 | 0 | 11 | 11 | 0 | 11.00 | 11.00 | (|
| URN BARREN | Class A | 1995 | 1 | 1 | 0 | 11 | 11 | 0 | 15 | 15 | 0 | 15.00 | 15.00 | |
| | | 1996 | 1 | 1 | 0 | 10 | 10 | 0 | 16 | 16 | 0 | 16.00 | 16.00 | |
| • | | 1997 | 1 | 1 | 0 | 3 | 3 | 0 | 6 | 6 | 0 | 6.00 | 6.00 | |
| | Class B | 1995 | | 1 | 0 | 5 | 5 | 0 | 7 | 7 | 0 | 7.00 | 7.00 | |
| | | 1996 | 1 | 1 | 0 | 6 | 6 | .0 | 10 | 10 | 0 | 10.00 | 10.00 | |
| | | 1997 | <u> 1</u> | 1 | 0 | 4 | 4 | . 0 | 5 | 5 | 0 | 5.00 | 5.00 | |
| | Resident | 1995 | 1 | | 0 | 2 | 2 | 0 | 3 | 3 | 0 | 3.00 | 3.00 | |
| | | 1996 | 1 | 1 | 1 | 3 | 2 | 1 | 24 | 3 | 21 | 24.00 | 3.00 | 21.0 |
| | | 1997 | 1 | 1 | 0 | 15 | 15 | 0 | 21 | 21 | 0 | 20.00 | 20.00 | |
| IEMLOCK- | Class A | 1995 | 1 | | 0 | 8 | 8 | 0 | 13 | 13 | 0 | 13.00 | 13.00 | |
| IARDWOOD | | 1996 | 1 | 1 | 0 | 15 | 15 | 0 | 24 | 24 | 0 | 24.00 | 24.00 | |
| SWAMP | | 1997 | 1 | . 1 | 0 | 4 | 4 | 0 | 6 | 6 | 0 | 6.00 | 6.00 | |
| | Class B | 1995 | 1 | 1 | | | 4 | 0 | 8 | 8 | 0 | 7.00 | 7.00 | |
| | | 1996 | 1 | 1 | 0 | 4 | 6 | 0 | 10 | 10 | 0 | 10.00 | 10.00 | |
| | | 1997 | 1 | 1 | 0 | 2 | 2 | 0 | 2 | 2 | 0 | 2.00 | 2.00 | |
| | Resident | 1995 | 1 | 1 | 0 | | | 0 | 5 | 5 | 0 | 5.00 | 5.00 | |
| | | 1996 | 1 | 1 | 0 | 3 | 3 | 0 | 3 | 3 | 0 | 3.00 | 3.00 | |
| | | 1997 | 1 | 1 | 0 | 3 | 3 | | 18 | 18 | 0 | | 18.00 | |
| HEMLOCK- | Class A | 1995 | 1 | 1 | 0 | 9 | 9 | 0 | | 16 | 0 | 16.00 | 16.00 | |
| NORTHERN | r | 1996 | 1 | 1 | 0 | 13 | 13 | 0 | 16 | 24 | .0 | 24.00 | 24.00 | |
| HARDWOOD | | 1997 | 1 | 1 | 0 | 17 | 17 | 0 | 24 | 3 | 0 | | 3.00 | |
| FOREST | Class B | 1995 | 1 | 1 | 0 | 2 | 2 | | 3 | 3 | . 0 | | 3.00 | |
| | | 1996 | 1 | 1 | 0 | 2 | 2 | | 3 | | 0 | | 7.00 | |
| | | 1997 | 1 | 1 | 0 | 5 | 5 | 0 | 7 | 7 | | | 3.00 | 1. |
| | Resident | 1995 | 1 | 1 | 1 | 4 | 3 | | 4 | 3 | 1 | | 4.00 | 1. |
| | | 1996 | 1 | 1 | 0 | 4 | 4 | 0 | 5 | 5 | 0 | | | |
| | | 1997 | 1 | 1 | 0 | 4 | 4 | | 5 | 5 | 0 | | 5.00 | |
| OAK-HICKORY | Class A | 1995 | 5 | 5 | 0 | 19 | 19 | | 75 | 75 | 0 | | 14.40 | |
| | | 1996 | 5 | 5 | 0 | 24 | 24 | | 98 | 98 | 0 | | 18.80 | |
| | | 1997 | 5 | 5 | | 24 | 24 | | 104 | 104 | 0 | | 20.60 6.80 | |
| | Class B | 1995 | 5 | 5 | | 10 | | | 35 | 35 | 0 | | | 0 |
| | | 1996 | 5 | 5 | | 6 | | | 22 | | | | 3.60 | U |
| | | 1997 | 5 | | | | | | | | | | 7.00 | |
| | Resident | 1995 | 5 | | | | | | | | | | 4.40 | |
| | | 1996 | 5 | | | | | | | | | | 4.20 | |
| | | 1997 | 5 | | | | | | | | | | 6.60 | |
| SUCCESSIONAL | Class A | 1992 | 2 | | | | | | | | | | 14.00 | |
| OLD FIELD | | 1995 | 2 | | | | | | | | | | 21.50 | |
| | | 1996 | 2 | | | | | | | | | | 15.50 | |
| | | 1997 | 2 | | | | | | | | | | 35.00 | |
| | Class B | 1992 | 2 | | | | | | | | | | 20.00 | |
| | | 1995 | 2 | | | | | | | | | | 11.50 | |
| | | 1996 | 2 | 2 | 1 | 8 | . 8 | 1 | | | | | 9.50 | |
| | | 1997 | 2 | . 2 | . 0 | | | | | | | | 18.00 | |
| | Resident | 1992 | 2 | . 2 | . 0 | 6 | 6 | 0 | | | | | 12.50 | |
| | Resident | 1995 | 2 | . 2 | . 0 | 8 | . 8 | 3 0 | | | | | 5.00 | |
| | | 1996 | 2 | : 2 | . 1 | 7 | • | 5 1 | | | | | 4.00 | |
| | | 1997 | 2 | . 2 | . 0 | 10 | 10 |) (| 73 | 73 | (| 36.50 | 36.50 | |

| Table H2. Vegetat | | | Total | Site Plots | FO Plots | Total Spp | Site Spp | FO Spp | Total Birds | Site Birds | FO Birds | Ave Tot Birds | Ave Site Birds | Ave FO Bird |
|-------------------|---------------|------|-------|---------------|-------------|--------------|-------------|-----------|----------------|---------------|-------------|------------------|-------------------|----------------|
| Vegetation Type | Nest Location | Year | Plots | | | | | 0 | 7 | 7 | 0 | 7.00 | 7.00 | |
| BURN BARREN | GROUND | 1995 | 1 | 1 | 0 | 4 | 4 | 0 | 8 | 8 | 0 | 8.00 | 8.00 | |
| | | 1996 | 1 | 1 | 0 | 5 | 5 5 | 1 | 30 | 9 | 21 | 30.00 | 9.00 | 21.0 |
| | | 1997 | 1 | 1 | 1 | 6 | | 0 | 30 | 3 | 0 | 3.00 | 3.00 | |
| | SHRUB | 1995 | 1 | 1 | 0 | 3 | 3 | | 6 | 6 | 0 | 6.00 | 6.00 | |
| | | 1996 | 1 | 1 | 0 | 4 | 4 | 0 | 4 | 4 | 0 | 4.00 | 4.00 | |
| | | 1997 | 1 | 1 | 0 | 3 | 3 | 0 | | 2 | 0 | 2.00 | 2.00 | |
| | SNAG | 1997 | 1 | 1 | 0 | 1 | 1 | 0 | 2 | 2 | 0 | 2.00 | 2.00 | |
| | WOODY LOWER | 1995 | 1 | 1 | 0 | 2 | 2 | 0 | 2 | 4 | 0 | 4.00 | 4.00 | |
| | CANOPY | 1996 | 1 | 1 | 0 | 3 | 3 | 0 | 4 | | 0 | 3.00 | 3.00 | |
| | | 1997 | 1 | 1 | 0 | 2 | | 0 | 3 | 3 | 0 | 10.00 | 10.00 | |
| | WOODY UPPER | 1995 | 1 | 1 | 0 | 7 | 7 | 0 | 10 | 10 | | | 7.00 | |
| • | CANOPY | 1996 | 1 | 1 | 0 | 6 | 6 | 0 | 7 | 7 | 0 | 7.00 | | |
| | | 1997 | 1. | 1 | 0 | 7 | 7 | 0 | 11 | 11 | 0 | 11.00 | 11.00 | |
| HEMLOCK- | GROUND | 1995 | 1 | 1 | 0 | 7 | 7 | 0 | 11 | .11 | 0 | 11,00 | 11.00 | |
| HARDWOOD | | 1996 | 1 | 1 | 0 | 4 | 4 | 0 | 10 | 10 | 0 | 9.00 | 9.00 | |
| SWAMP | | 1997 | 1 | 1 | 0 | 5 | . 5 | 0 | 10 | 10 | 0 | 10.00 | 10.00 | |
| | MAN-MADE | 1997 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | |
| | STRUCTURE | | | | | | | | | | | | | |
| | SHRUB | 1995 | 1 | 1 | 0 | 5 | 5 | 0 | 5 | 5 | 0 | 5.00 | 5.00 | |
| | | 1996 | 1 | 1 | 0 | 3 | 3 | 0 | 4 | 4 | 0 | 4.00 | 4.00 | |
| | | 1997 | 1 | 1 | 0 | 6 | 6 | 0 | 11 | 11 | 0 | 11.00 | 11.00 | |
| | SNAG | 1996 | 1 | 1 | 0 | 1 | 1 | 0 | 2 | 2 | 0 | 2.00 | 2.00 | |
| | | 1997 | 1 | 1 | 0 | 1 | I | 0 | 1 | 1 | 0 | 1.00 | 1.00 | |
| | WOODY LOWER | 1995 | 1 | 1 | 0 | 5 | 5 | 0 | 8 | 8 | 0 | 7.00 | 7:00 | |
| | CANOPY | 1996 | 1 | 1 | 0 | 3 | 3 | 0 | 5 | 5 | 0 | 5.00 | 5.00 | |
| | | 1997 | 1 | 1 | 0 | 4 | 4 | 0 | 4 | 4 | 0 | 4.00 | 4.00 | |
| | WOODY UPPER | 1995 | 1 | . 1 | 0 | 4 | 4 | 0 | 5 | 5 | 0 | 5.00 | 5.00 | |
| | CANOPY | 1996 | 1 | 1 | 0 | 4 | 4 | 0 | 5 | 5 | 0 | 5.00 | 5.00 | |
| | | 1997 | 1 | 1 | 0 | .7 | 7 | 0 | . 10 | 10 | 0 | 10.00 | 10.00 | |
| HEMLOCK- | GROUND | 1995 | 1 | 1 | 0 | 3 | 3 | 0 | 5 | 5 | 0 | 5.00 | 5.00 | |
| NORTHERN | | 1996 | 1 | 1 | 0 | 2 | 2 | 0 | 4 | 4 | 0 | 4.00 | - 4.00 | |
| HARDWOOD | | 1997 | 1 | 1 | 0 | 5 | 5 | 0 | 6 | 6 | 0 | 6.00 | 6.00 | |
| FOREST | REED | 1997 | 1 | 1 | 0 | 1 | 1 | 0 | 3 | 3 | 0 | 3.00 | 3.00 | |
| . 0.125. | SHRUB | 1995 | 1 | 1 | 0 | 3 | 3 | 0 | 4 | 4 | 0 | 4.00 | 4.00 | |
| | | 1996 | 1 | 1 | 0 | 3 | 3 | 0 | 5 | . 5 | 0 | 5.00 | 5.00 | |
| | | 1997 | 1 | 1 | 0 | 5 | 5 | 0 | 8 | 8 | 0 | 8.00 | 8.00 | |
| | SNAG | 1995 | 1 | 1 | 1 | 2 | 1 | 1 | 3 | 2 | 1 | 3.00 | 2.00 | 1.0 |
| | 2 | 1997 | 1 | 1 | 0 | 2 | 2 | 0 | 2 | 2 | 0 | 2.00 | 2.00 | |
| | WOODY LOWER | 1995 | 1 | 1 | . 0 | 5 | 5 | 0 | 7 | 7 | 0 | 7.00 | 7.00 | |
| | CANOPY | 1996 | 1 | 1 | 0 | 8 | 8 | 0 | 8 | 8 | 0 | 8.00 | 8.00 | |
| | | 1997 | 1 | 1 | 0 | 4 | 4 | 0 | 5 | 5 | 0 | 5.00 | 5.00 | |
| | WOODY UPPER | 1995 | 1 | 1 | 0 | 2 | 2 | 0 | 6 | 6 | 0 | 6.00 | 6.00 | |
| | CANOPY | 1996 | 1 | 1 | 0 | 6 | 6 | 0 | 7 | 7 | 0 | 6.00 | 6.00 | |
| | | 1997 | 1 | 1 | 0 | 9 | 9 | 0 | 12 | 12 | 0 | 12.00 | 12.00 | |
| OAK-HICKORY | GROUND | 1995 | 5 | 5 | 0 | 4 | 4 | 0 | 11 | 11 | 0 | 2.20 | 2.20 | |
| OAK-HICKOK I | OROUND | 1996 | .5 | 5 | 0 | 6 | 6 | 0 | 16 | 16 | 0 | 3.20 | 3.20 | |
| | | 1997 | 5 | 5 | 0 | 5 | 5 | 0 | 21 | 21 | 0 | 4.20 | | |
| | MAN-MADE | 1995 | 5 | 2 | 0 | 1 | 1 | 0 | 3 | 3 | 0 | 0.60 | 0.60 | |
| | STRUCTURE | 1997 | 5 | 1 | 0 | 1 | 1 | 0 | . 1 | 1 | 0 | 0.20 | 0.20 | |

| | Nest Location | Year | Total Plots | Site Plots | FO Plots | Total Spp | Site Spp | FO Spp | Total Birds | Site Birds | FO Birds | Ave Tot Birds | Ave Site Birds | Ave FO |
|-----------------|-----------------------|--------------|----------------|---------------|-------------|--------------|-------------|-----------|----------------|---------------|-------------|------------------|-------------------|--------|
| Vegetation Type | | | 5 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 0.20 | 0 | 0.20 |
| | REED | 1996 | 5 | 4 | 0 | 5 | 5 | 0 | 11 | 11 | 0 | 2.20 | 2.20 | 0) |
| | SHRUB | 1995 | 5 | 5 | 0 | 7 | 7 | 0 | 22 | 22 | 0 | 4.40 | 4.40 | 0: |
| | | 1996 | 5 | 5 | 0 | 8 | 8 | 0 | 24 | 24 | 0 | 4.80 | 4.80 | Ø |
| | | 1997 1995 | 5 | 5 | 0 | 6 | 6 | 0 | 12 | 12 | 0 | 2.40 | 2.40 | Œ. |
| | SNAG | 1993 | 5 | 4 | 0 | 3 | 3 | 0 | 8 | 8 | 0 | 1.40 | 1.40 | 0) |
| | | 1990 | 5 | 3 | 0 | 3 | 3 | 0 | 4 | 4 | 0 | 0.80 | 0.80 | 0. |
| | WAS DALL OWED | | 5 | 5 | 0 | 10 | 10 | 0 | 35 | 35 | 0 | 6.60 | 6.60 | Q |
| | WOODY LOWER | 1995 | 5 | 5 | 0 | 9 | 9 | 0 | 34 | 34 | 0 | 6.20 | 6.20 | Ø |
| | CANOPY | 1996 | 5 | 5 | 0 | 9 | 9 | 0 | 41 | 41 | 0 | 7.80 | 7.80 | 0 |
| | WIG CON LIDDED | 1997 | 5 | 5 | 0 | 15 | 15 | 0 | 60 | 60 | 0 | 11.60 | 11.60 | O |
| | WOODY UPPER | 1995 1996 | 5 | 5 | 1 | 14 | 13 | 1 | 60 | 59 | 1 | 11.60 | 11.40 | 0:20 |
| | CANOPY | 1990 | 5 | 5 | 0 | 16 | 16 | 0 | 85 | 85 | 0 | 16.40 | 16.40 | Ø |
| | CD CV DVD | 1997 | 2 | 2 | 1 | 5 | 5 | 1 | 11 | 10 | 1 | 5.00 | 4.50 | 0:50 |
| SUCCESSIONAL | GROUND | | 2 | 2 | 0 | 8 | 8 | 0 | 14 | 14 | 0 | 7:00 | 7.00 | G |
| OLD FIELD | | 1995 1996 | 2 | . 2 | 0 | 6 | 6 | 0 | 13 | 13 | 0 | 6.50 | 6.50 | G |
| | | 1990 | 2 | 2 | 0 | 13 | 13 | 0 | 86 | 86 | 0 | 43.00 | 43.00 | e |
| | MANAGE | | 2 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | | 0.50 | G |
| | MAN-MADE STRUCTURE | 1995 1997 | 2 | 1 | 0 | 1 | 1 | 0 | 2 | 2 | 0 | 1.00 | 1.00 | c |
| | | 1997 | 2 | 1 | 0 | 1 | 1 | 0 | 16 | 16 | 0 | 8.00 | 8.00 | C |
| | REED | 1992 | 2 | 1 | 0 | 1 | 1 | 0 | 6 | 6 | 0 | 3.00 | 3.00 | G |
| | | 1996 | 2 | 1 | 0 | 1 | 1 | 0 | 3 | 3 | 0 | 1.00 | 1.00 | 6 |
| | | 1997 | 2 | 1 | 0 | 1 | 1 | | 5 | 5 | . 0 | 2.00 | 2.00 | · |
| | SHRUB | 1992 | 2 | 2 | 0 | 6 | 6 | | | 16 | . 0 | 8.00 | 8.00 | 6 |
| | SHKOĐ | 1995 | 2 | 2 | 0 | 8 | 8 | | | 21 | . 0 | 10.50 | . 10.50 | 0 |
| | | 1996 | 2 | 2 | 0 | 8 | 8 | | | 15 | 0 | 7.00 | 7.00 | C |
| | | 1997 | 2 | 2 | 0 | 9 | 9 | | | 40 | 0 | 20.00 | 20.00 | C |
| | SNAG | 1992 | 2 | 1 | 0 | 3 | | | | 7 | 0 | 3.00 | 3.00 | € |
| | SNAO | 1995 | 2 | 2 | 0 | 3 | | | | 6 | 0 | 2.50 | 2.50 | 6 |
| | | 1996 | 2 | 2 | 0 | 1 | 1 | | | 2 | 0 | 1.00 | 1.00 | C |
| | | 1997 | 2 | 2 | | 3 | | | | 5 | 0 | | 2.50 | . (|
| | WOODY LOWER | 1992 | 2 | | | | | | | 16 | 0 | | 8.00 | (|
| | CANOPY | 1995 | | _ | _ | | _ | | | | 0 | 6.00 | 6.00 | 6 |
| | CANOI I | 1996 | | | | 7 | • | | | | 7 | | 7.00 | |
| | | 1997 | | | | | | | | | 0 | | 8.50 | |
| | WOODY UPPER | 1992 | | | | | | | | | 0 | | 15.00 | |
| | CANOPY | 1995 | | | | | | | | | 0 | | 8.50 | |
| | CANOF I | 1996 | | | | | | | | | | | 6.50 | |
| | | 1997 | | | | | | | | | | | | |

| | tion types for Wes | | Total | Site | FO | Total | Site | FO | Total Birds | Site Birds | FO Birds | Ave Tot Birds | Ave Site Birds | Ave FC Bird |
|-----------------|--------------------|------|-------|-------|-------|-------|------|-----|----------------|---------------|-------------|------------------|-------------------|----------------|
| Vegetation Type | Nest Type | Year | Plots | Plots | Plots | Spp | Spp | Spp | | | | | | |
| BURN BARREN | CAVITY | 1995 | 1 | 1 | 0 | 2 | 2 | 0 | 2 | 2 | 0 | 2.00 | 2.00 | (|
| | | 1996 | 1 | 1 | 0 | 1 | 1 | 0 | 2 | 2 | 0 | 2.00 | 2.00 | (|
| | | 1997 | 1 | 1 | 0 | . 2 | 2 | 0 | 4 | 4 | 0 | 4.00 | 4.00 | |
| | CUP | 1995 | 1 | 1 | 0 | 11 | 11 | . 0 | 16 | 16 | 0 | 16.00 | 16.00 | (|
| | | 1996 | 1 | 1 | 0 | 13 | 13 | 0 | 19 | 19 | 0 | 19.00 | 19.00 | |
| | | 1997 | 1 | 1 | 0 | 13 | 13 | 0 | 19 | 19 | 0 | 19.00 | 19.00 | - (|
| | PARASITIC | 1995 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | |
| | | 1996 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | . (|
| | | 1997 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | (|
| | PENDANT | 1995 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | 9 |
| | | 1996 | 1 | 1 | 0 | 1 | 1 | 0 | . 1 | 1 | 0 | 1.00 | 1.00 | (|
| | | 1997 | 1 | 1 | 0 | 1 | 1 | 0 | 2 | 2 | 0 | 2.00 | 2.00 | |
| | PLATFORM | 1996 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | (|
| | SAUCER | 1995 | 1 | 1 | 0 | 1 | 1 | 0 | 2 | 2 | 0 | 2:00 | 2.00 | (|
| | | 1996 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | (|
| | | 1997 | 1 | 1 | 0 | 1 | 1 | 0 | 3 | 3 | 0 | 3.00 | 3.00 | (|
| | SCRAPE | 1997 | 1 | 0 | 1_ | _1 | 0 | 1. | 21 | 0 | 21 | 21.00 | 0.00 | 21.0 |
| HEMLOCK- | CAVITY | 1995 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | |
| HARDWOOD | | 1996 | 1 | 1 | 0 | 3 | 3 | 0 | 5 | 5 | 0 | 5.00 | 5.00 | |
| SWAMP | | 1997 | 1 | 1 | 0 | 3 | 3 | 0 | 3 | 3 | 0 | 3.00 | 3.00 | . (|
| | CUP | 1995 | 1 | 1 | 0 | 16 | 16 | 0 | 24 | 24 | 0 | 23.00 | 23.00 | • |
| | | 1996 | 1 | 1 | 0 | 9 | 9 | 0 | 17 | 17 | 0 | 16.00 | 16.00 | • |
| | | 1997 | 1 | 1 | 0 | 18 | 18 | 0 | 29 | 29 | 0 | 29.00 | 29.00 | |
| | OVEN | 1995 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | • |
| | | 1996 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | - (|
| | | 1997 | 1 | 1 | 0 | 1 | 1 | 0 | 2 | 2 | 0 | 2.00 | 2.00 | (|
| | PARASITIC | 1995 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | • |
| | | 1996 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | • |
| | | 1997 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | , (|

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SAUCER

SCRAPE

CAVITY

CUP

OVEN

PARASITIC

PENDANT

SAUCER

HEMLOCK-

NORTHERN

HARDWOOD

FOREST

| Vegetation Type | Nest Type | Year | Total Plots | Site Plots | FO Plots | Total Spp | Site Spp | FO Spp | Total Birds | Site Birds | FO Birds | Ave Tot Birds | Ave Site Birds | Ave FO |
|-----------------|-------------|------|----------------|---------------|-------------|--------------|-------------|-----------|----------------|---------------|-------------|------------------|-------------------|--------------------------------|
| | | 1995 | 5 | 5 | 0 | 11 | 11 | 0 | 24 | 24 | 0 | 4.80 | 4.80 | . 0 |
| OAK-HICKORY | CAVITY | 1996 | 5 | 5 | 0 | 8 | 8 | 0 | 26 | 26 | 0 | 5.00 | 5.00 | (|
| | | 1997 | 5 | . 5 | 0 | 8 | 8 | 0 | 29 | 29 | 0 | 5.20 | 5.20 | (|
| | CUP | 1995 | 5 | 5 | 0 | 23 | 23 | 0 | 77 | 77 | 0 | 14.80 | 14.80 | 1 |
| | CUP | 1996 | 5 | 5 | 1 | 25 | 24 | 1 | 83 | 82 - | 1 | 16.00 | 15.80 | 0.2 |
| | | 1997 | 5 | 5 | 0 | 29 | 29 | 0 | 99 | 99 | 0 | 19.60 | 19.60 | (|
| | OMEN | 1995 | 5 | 2 | 0 | 1 | 1 | 0 | 2 | 2 | 0 | 0.40 | 0.40 | 4 |
| | OVEN | 1996 | 5 | 3 | 0 | 1 | 1 | 0 | 7 | 7 | 0 | 1.40 | 1.40 | 1 |
| | | 1997 | 5 | 3 | 0 | 1 | 1 | 0 | 5 | 5 | 0 | 1.00 | 1.00 | |
| | D. D. Comic | 1997 | 5 | 4 | 0 | 1 | 1 | 0 | 6 | 6 | 0 | 1.20 | 1.20 | |
| | PARASITIC | 1995 | 5 | 2 | 0 | 1 | 1 | 0 | 2 | 2 | 0 | 0.40 | 0.40 | |
| | | | | 5 | .0 | 1 | 1 | 0 | 11 | 11 | 0 | 2.00 | 2.00 | |
| | | 1997 | 5 | 5 | 0 | 1 | 1 | 0 | 9 | 9 | 0 | 1.80 | 1.80 | |
| | PENDANT | 1995 | 5 | | _ | 2 | 2 | 0 | 9 | 9 | 0 | 1.80 | 1.80 | |
| | | 1996 | 5 | 5 | 0 | | | 0 | 15 | 15 | 0 | 3.00 | 3.00 | |
| | | 1997 | 5 | 5 | 0 | 1 | 3 | 0 | 3 | 3 | 0 | 0.60 | 0.60 | |
| | PLATFORM | 1995 | 5 | 2 | 0 | 3 | | | 1 | 0 | 1 | 0.20 | 0 | 0.2 |
| | | 1996 | 5 | 0 | 1 | 1 | 0 | 0 | 11 | 11 | 0 | 2.00 | 2.00 | |
| | SAUCER | 1995 | 5 | 5 | 0 | 1 | 1 | | 12 | 12 | 0 | 2.00 | 2.00 | |
| | | 1996 | 5 | 5 | 0 | 1 | 1 | 0 | | | 0 | 2.20 | 2.20 | |
| | | 1997 | 5 | 4 | 0 | 1 | 1 | 0 | 11 | 11 | 0 | 0.20 | 0.20 | |
| | SCRAPE | 1996 | 5 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | | | | |
| | | 1997 | 5 | 1 | 0 | 1 | 1 | 0 | 6 | 6 | 0 | 1.20 | 1.20 | ****************************** |
| SUCCESSIONAL | CAVITY | 1992 | 2 | 1 | 0 | 5 | 5 | 0 | 9 | 9 | 0 | 4.00 | 4.00 | |
| OLD FIELD | | 1995 | 2 | 2 | 0 | 6 | 6 | 0 | 12 | 12 | 0 | 5.00 | 5.00 | |
| | | 1996 | 2 | 2 | 0 | 5 | 5 | 0 | | 7 | 0 | 3.50 | 3.50 | |
| | | 1997 | 2 | 2 | 0 | 5 | 5 | | 7 | 7 | 0 | 3.50 | 3.50 | |
| | CUP | 1992 | 2 | 2 | 1 | 19 | 19 | | 78 | 77 | 1 | 38.50 | 38.00 | |
| | | 1995 | 2 | 2 | 0 | 25 | 25 | | 58 | 58 | 0 | 29.00 | 29.00 | |
| | | 1996 | 2 | 2 | 2 | 24 | 22 | 2 | 57 | 48 | 9 | 27.00 | 22.50 | |
| | | 1997 | 2 | 2 | 0 | 32 | 32 | 0 | 100 | 100 | 0 | 49.50 | 49.50 | |
| | OVEN | 1995 | 2 | 1 | 0 | 1 | 1 | 0 | 2 | 2 | 0 | 1.00 | 1.00 | |
| | | 1996 | 2 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0.50 | 0.50 | |
| | | 1997 | 2 | . 2 | 0 | 1 | 1 | 0 | 3 | 3 | 0 | 1.50 | 1.50 | |
| | PARASITIC | 1992 | 2 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0.50 | 0.50 | |
| | | 1995 | 2 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | . 0 | 0.50 | 0.50 | |
| | | 1996 | 2 | 1 | 1 | 1 | 1 | 1 | 8 | 3 | 5 | 3.50 | 1.00 | 2. |
| | | 1997 | 2 | 2 | 0 | 1 | 1 | 0 | 3 | 3 | 0 | 1.50 | 1.50 | |
| | PENDANT | 1995 | 2 | 1 | 0 | 1 | 1 | 0 | 2 | 2 | 0 | 1.00 | 1.00 | |
| | | 1996 | | | 0 | 1 | 1 | 0 | 1 | 1 | . 0 | 0.50 | 0.50 | |
| | | 1997 | | | | 1 | 1 | 0 | 4 | 4 | 0 | 2.00 | 2.00 | |
| | PLATFORM | 1992 | | | | 1 | 1 | 0 | 1 | 1 | 0 | 0.50 | 0.50 | |
| | | 1995 | | | | 1 | | | 1 | . 1 | 0 | 0.50 | 0.50 | |
| | | 1997 | | | | | | | | | 0 | 0.50 | 0.50 | |
| | SAUCER | 1992 | | | | | | | | | | | | _ |
| | J. LOCLIC | 1995 | | | | | | | | | 0 | | | |
| | | 1995 | | | | | | | | | | | | |
| | | 1996 | | | | | | | | | | | | |
| | CCD A DC | 1997 | | | | | | | | | | | | |
| | SCRAPE | | | | | | | | | | | | | |
| | | 1995 | | | | | | | | | | | | |
| | | 1997 | 2 | 1 | 0 | 4 | . 4 | 0 | OU. | 00 | | 20.00 | 50.00 | |

| Table H4. Vegeta | tion types for West Point | special | Total | Site | FO | Total | Site | FO | Total | Site | FO | Ave Tot | Ave Site | Ave FO |
|------------------|---------------------------|--------------|-------|--------|-------|----------|------|-----|-------|-------|-------|---------|----------|--------|
| Vegetation Type | Food Type | Year | Plots | Plots | Plots | Spp | Spp | Spp | Birds | Birds | Birds | Birds | Birds | Birds |
| BURN BARREN | AQUATIC INVERTS | 1995 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | (|
| BUKIN BAKKLIN | AQUATION | 1996 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | |
| | FRUIT | 1995 | 1 | 1 | 0 | 1 | 1 | 0 | 2 | 2 | 0 | 2.00 | 2.00 | (|
| | TROTT | 1996 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | (|
| | | 1997 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | (|
| | GREENS | 1997 | 1 | 0 | 1 | 1 | 0 | 1 | 21 | 0 | 21 | 21.00 | 0 | 21.00 |
| | INSECTS | 1995 | 1 | 1 | 0 | 14 | 14 | 0 | 19 | 19 | 0 | 19.00 | 19.00 | (|
| | MSECIS | 1996 | 1 | 1 | 0 | 16 | 16 | 0 | 23 | 23 | 0 | 23.00 | 23.00 | (|
| | | 1997 | 1 | 1 | 0 | 17 | 17 | 0 | 28 | 28 | 0 | 28.00 | 28.00 | (|
| HEMLOCK- | AQUATIC INVERTS | 1996 | 1 | 1 | 0 | 1 | 1 | 0 | 2 | 2 | 0 | 2.00 | 2.00 | (|
| | | 1997 | 1 | 1 | 0 | 1 | 1 | 0 | 2 | 2 | 0 | 2.00 | 2.00 | C |
| HARDWOOD | FRUIT | 1995 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | |
| SWAMP | GREENS | 1995 | 1 | 1 | 0 | 20 | 20 | 0 | 28 | 28 | 0 | 27.00 | 27.00 | (|
| | INSECTS | 1996 | 1 | 1 | 0 | 14 | 14 | 0 | 24 | 24 | 0 | 23.00 | 23.00 | (|
| | | | 1 | 1 | 0 | 22 | 22 | 0 | 34 | 34 | 0 | 34.00 | 34.00 | (|
| | | 1997 | | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | (|
| | SEEDS | 1997 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | . (|
| HEMLOCK- | FRUIT | 1997 | 1 | 1 | 0 | 14 | 14 | 0 | 24 | 24 | 0 | 24.00 | 24.00 | (|
| NORTHERN | INSECTS | 1995 | | | 0 | 18 | 18 | 0 | 22 | 22 | 0 | 21.00 | 21.00 | (|
| HARDWOOD | | 1996 | 1 | 1 | 0 | 25 | 25 | 0 | 35 | 35 | 0 | 35.00 | 35.00 | (|
| FOREST | | 1997 | 1 | 1 | . 0 | 1 | 1 | 0 | 2 | 2 | 0 | 2.00 | 2.00 | (|
| | SEEDS | 1996 | 1 | . 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1.00 | 0 | 1.00 |
| | SMALL MAMMALS | 1995 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0.20 | 0.20 | (|
| OAK-HICKORY | AQUATIC INVERTS | 1996 | 5 | | 0 | 1 | 1 | 0 | - 6 | 6 | 0 | 1.20 | 1.20 | (|
| | FRUIT | 1997 | 5 | 1 | 0 | | 1 | 0 | 6 | 6 | 0 | 1.20 | 1.20 | (|
| | GREENS | 1997 | 5 | 5 | 0 | 38 | 38 | 0 | 128 | 128 | 0 | 24.80 | 24.80 | (|
| | INSECTS | 1995 | 5 | 5 | 1 | 37 | 36 | 1 | 138 | 137 | 1 | 26.40 | 26.20 | 0.20 |
| | | 1996 | | 5 | 0 | 40 | 40 | 0 | 164 | 164 | 0 | 31.80 | 31.80 | (|
| | | 1997 | 5 | 2 | 0 | 1 | 1 | 0 | 2 | 2 | 0 | 0.40 | 0.40 | (|
| | SEEDS | 1995 | | | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0.20 | 0.20 | (|
| | | 1996 | 5 | 1 2 | 0 | . 2 | 2 | 0 | 2 | 2 | 0 | 0.40 | 0.40 | (|
| | SMALL MAMMALS | 1995 | | _ | | 1 | 0 | 1 | 1 | 0 | 1 | 0.20 | 0 | 0.20 |
| | | 1996 | 5 | 0 | 1 | 1 | 1 | 0 | 2 | 2 | 0 | 1.00 | 1.00 | (|
| | AQUATIC INVERTS | 1997 | 2 | 1 | 0 | | | | 57 | 57 | 0 | 28.50 | 28.50 | (|
| OLD FIELD | GREENS | 1997 | 2 | 1 | 0 | 1 | 26 | 0 | 90 | 89 | 1 | 44.00 | 43.50 | 0.50 |
| | INSECTS | 1992 | 2 | 2 | 1 | 26 | 36 | 0 | 75 | 75 | 0 | 36.50 | 36.50 | 0.5 |
| | | 1995 | 2 | 2 | 0 | 36 32 | 30 | 3 | 74 | 60 | 14 | 35.50 | 28.50 | 7.0 |
| | • | 1996 | 2 | 2 2 | 2 | 40 | 40 | 0 | 109 | 109 | 0 | 54.00 | 54.00 | 7.00 |
| • | CEEDS | 1997 1992 | 2 | 2 | 0 | 3 | 3 | 0 | 5 | 5 | 0 | 2.00 | 2.00 | |
| | SEEDS | 1992 | 2 | 1 | 0 | 1 | 1 | 0 | 3 | . 3 | 0 | 1.50 | 1.50 | |
| | | 1995 | 2 | 1 | 0 | 1 | 1 | 0 | 2 | 2 | 0 | 0.50 | 0.50 | |
| | | 1990 | 2 | 1 | 0 | 3 | 3 | 0 | 11 | 11 | 0 | 5.50 | 5.50 | |
| | CHART MANAGET C | | 2 | 1 | 0 | 1 | 1 | 0 | 2 | 2 | 0 | 1.00 | 1.00 | |
| | SMALL MAMMALS | 1992 | 2 | 1 | 0 | | | | 2 | 2 | 0 | 0.50 | 0.50 | |

1997

0.50

0.50

0

| Vegetation Type | Substrate | Year | Total Plots | Site Plots | FO Plots | Total Spp | Site Spp | FO Spp | Total Birds | Site Birds | FO Birds | Ave Tot Birds | Ave Site Birds | Ave Fo |
|-----------------|------------|------|----------------|---------------|-------------|--------------|-------------|-----------|----------------|---------------|-------------|------------------|-------------------|--------|
| | | 1995 | 1 | 1 | 0 | 3 | 3 | 0 | 5 | 5 | 0 | 5.00 | 5.00 | |
| URN BARREN | AIR | 1995 | 1 | 1 | 0 | 4 | 4 | 0 | 6 | 6 | 0 | 6.00 | 6.00 | |
| | | | 1 | 1 | 0 | 5 | 5 | 0 | 10 | 10 | 0 | 10.00 | 10.00 | |
| | DARK | 1997 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | |
| | BARK | 1995 | 1 | 1 | 0 | 1 | 1 | 0 | 2 | 2 | 0 | 2.00 | 2.00 | |
| | | 1996 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | |
| | 70111 GE | 1997 | 1 | 1 | 0 | 5 | 5 | 0 | 6 | 6 | 0 | 6.00 | 6.00 | |
| | FOLIAGE | 1995 | | 1 | 0 | 5 | 5 | 0 | 5 | 5 | 0 | 5.00 | 5.00 | |
| | | 1996 | 1 | | 0 | 3 | 3 | 0 | 4 | 4 | 0 | 4.00 | 4.00 | |
| | an all nin | 1997 | 1 | 1 | 0 | 7 | 7 | 0 | 10 | 10 | 0 | 10.00 | 10.00 | |
| | GROUND | 1995 | 1 | 1 | | | 8 | 0 | 12 | 12 | 0 | 12.00 | 12.00 | |
| | | 1996 | 1 | 1 | 0 | 8 9 | 9 | 0 | 14 | 14 | 0 | 14.00 | 14.00 | |
| | | 1997 | 1 | 1 | 0 | | | 1 | 21 | 0 | 21 | 21.00 | 0 | 21. |
| | WATER | 1997 | 1 | 0 | 1 | 1 | 0 | | | 4 | 0 | 4.00 | 4.00 | |
| HEMLOCK- | AIR | 1995 | 1 | 1 | 0 | 4 | 4 | 0 | 4 | 3 | 0 | 3.00 | 3.00 | |
| HARDWOOD | | 1996 | 1 | 1 | 0 | 2 | 2 | 0 | 10 | 10 | 0 | 10.00 | 10.00 | |
| SWAMP | | 1997 | 1 | 1 | 0 | 7 | 7 | 0 | 2 | 2 | 0 | 2.00 | 2.00 | |
| | BARK | 1995 | 1 | 1 | 0 | 1 | 1 | 0 | | | 0 | 4.00 | 4.00 | |
| | | 1996 | 1 | 1 | 0 | 2 | 2 | 0 | 4 | 4 | | 3.00 | 3.00 | |
| | | 1997 | 1 | 1 | 0 | 2 | 2 | 0 | 3 | 3 | 0 | | | |
| | FOLIAGE | 1995 | 1 | 1 | 0 | 7 | 7 | 0 | 9 | 9 | 0 | 8.00 | 8.00 | |
| | | 1996 | 1 | 1 | 0 | 3 | 3 | 0 | 5 | 5 | . 0 | 5.00 | 5.00 | |
| | | 1997 | 1 | 1 | 0 | 5 | 5 | 0 | 8 | 8 | 0 | 8.00 | 8.00 | |
| | GROUND | 1995 | 1 | ı | 0 | 9 | 9 | 0 | 14 | 14 | 0 | 14.00 | 14.00 | |
| | | 1996 | 1 | 1 | 0 | 8 | 8 | 0 | 14 | 14 | 0 | 13.00 | 13.00 | |
| | | 1997 | 1 | 1 | 0 | 10 | 10 | 0 | 16 | 16 | 0 | 16.00 | 16.00 | |
| HEMLOCK- | AIR | 1995 | 1 | 1 | 0 | 4 | 4 | 0 | 8 | . 8 | 0 | 8.00 | 8.00 | |
| NORTHERN | | 1996 | 1 | 1 | 0 | 5 | 5 | 0 | 6 | - 6 | 0 | 6.00 | 6.00 | |
| HARDWOOD | | 1997 | 1 | 1 | 0 | 5 | 5 | 0 | 8 | 8 | 0 | 8.00 | 8.00 | |
| FOREST | BARK | 1995 | 1 | 1 | 0 | 1 | 1 | 0 | 2 | 2 | 0 | 2.00 | 2.00 | |
| | | 1997 | 1 | 1 | 0 | 3 | 3 | 0 | 3 | 3 | 0 | 3.00 | 3.00 | |
| | FOLIAGE | 1995 | 1 | 1 | 0 | 3 | 3 | 0 | 6 | 6 | 0 | 6.00 | 6.00 | |
| | | 1996 | 1 | 1 | 0 | 7 | 7 | 0 | 8 | 8 | 0 | 8.00 | 8.00 | |
| | | 1997 | 1 | 1 | 0 | 10 | 10 | 0 | 13 | 13 | 0 | 13.00 | 13.00 | |
| | GROUND | 1995 | 1 | 1 | 1 | 7 | 6 | 1 | 9 | 8 | 1 | 9.00 | 8.00 | 1 |
| | | 1996 | 1 | 1 | 0 | 7 | 7 | 0 | 10 | 10 | . 0 | . 9.00 | 9.00 | |
| | | 1997 | 1 | 1 | 0 | 8 | 8 | 0 | 12 | 12 | 0 | 12.00 | 12.00 | |
| OAK-HICKORY | AIR | 1995 | 5 | 5 | 0 | 7 | 7 | 0 | 40 | 40 | 0 | 7.60 | 7.60 | |
| | | 1996 | 5 | 5 | 0 | 5 | 5 | 0 | 41 | 41 | 0 | 7.60 | 7.60 | |
| | | 1997 | 5 | 5 | 0 | 6 | 6 | 0 | 47 | 47 | 0 | 9.40 | 9.40 | |
| | BARK | 1995 | 5 | 5 | 0 | 7 | 7 | 0 | 13 | 13 | 0 | 2.60 | 2.60 | |
| | | 1996 | 5 | 5 | 0 | 5 | 5 | 0 | 9 | 9 | 0 | 1.80 | 1.80 | |
| | | 1997 | 5 | 5 | 0 | 5 | 5 | 0 | 16 | 16 | 0 | 2.80 | 2.80 | |
| | FOLIAGE | 1995 | 5 | 5 | 0 | 12 | 12 | 0 | 28 | 28 | 0 | 5.40 | 5.40 | |
| | | 1996 | 5 | 5 | 0 | 14 | 14 | 0 | 39 | 39 | -0 | 7.60 | 7.60 | |
| | | 1997 | 5 | 5 | 0 | 17 | 17 | 0 | 50 | 50 | 0 | 9.60 | 9.60 | |
| | GROUND | 1995 | 5 | 5 | 0 | 15 | 15 | 0 | 51 | 51 | 0 | 10.00 | 10.00 | |
| | | 1996 | 5 | 5 | 2 | 16 | 14 | 2 | 52 | 50 | 2 | 10.00 | 9.60 | 0 |
| | | 1997 | 5 | | 0 | 13 | 13 | | 57 | 57 | 0 | 11.20 | 11.20 | |
| | WATER | 1997 | 5 | | 0 | 1 | 1 | | 6 | 6 | 0 | 1.20 | 1.20 | |

| Manager Type | Substrate | Year | Total Plots | Site Plots | FO Plots | Total Spp | Site Spp | FO Spp | Total Birds | Site Birds | FO Birds | Ave Tot Birds | Ave Site Birds | Ave FO Birds |
|-----------------|-----------|--------------|----------------|---------------|-------------|--------------|-------------|-----------|----------------|---------------|-------------|------------------|-------------------|-----------------|
| Vegetation Type | | 1992 | 2 | 1 | 0 | 5 | 5 | 0 | 9 | 9 | 0 | 4.50 | 4.50 | 0 |
| SUCCESSIONAL | AIR | 1992 | 2 | 2 | 0 | 5 | 5 | 0 | 9 | 9 | 0 | 4.50 | 4.50 | 0 |
| OLD FIELD | | 1995 | 2 | 1 | 0 | 4 | 4 | 0 | 7 | 7 | 0 | 3.50 | 3.50 | 0 |
| | | 1990 | 2 | 2 | 0 | 7 | 7 | 0 | 15 | 15 | 0 | 7.50 | 7.50 | 0 |
| | DADY | 1997 | 2 | 1 | 0 | 3 | 3 | 0 | 3 | 3 | 0 | 1.50 | 1.50 | 0 |
| | BARK | 1992 | 2 | 1 | 0 | 4 | 4 | 0 | 5 | 5 | 0 | 2.00 | 2.00 | 0 |
| | | 1995 | 2 | 1 | 0 | 2 | 2 | 0 | 2 | 2 | 0 | 1.00 | 1.00 | 0 |
| | | 1990 | 2 | 2 | 0 | 4 | 4 | 0 | 4 | 4 | 0 | 2.00 | 2.00 | 0 |
| | FOLIAGE | 1992 | 2 | 2 | 0 | 7 | 7 | 0 | 16 | 16 | 0 | 7.50 | 7.50 | 0 |
| | FOLIAGE | 1995 | 2 | 2 | 0 | 12 | 12 | 0 | 31 | 31 | 0 | 15.50 | 15.50 | 0 |
| | | 1996 | 2 | 2 | 1 | 10 | 9 | 1 | 17. | 15 | 2 | 8.00 | 7.00 | 1.00 |
| | | 1997 | 2 | 2 | 0 | 13 | 13 | 0 | 43 | 43 | 0 | 21.50 | 21.50 | 0 |
| | GROUND | 1992 | 2 | 2 | 1 | 14 | 14 | 1 | 67 | 66 | 1 | 33.00 | 32.50 | 0.50 |
| | GROUND | 1995 | 2 | 2 | 0 | 16 | 16 | 0 | 33 | 33 | 0 | 16.00 | 16.00 | 0 |
| | | 1993 | 2 | 2 | 1 | 17 | 16 | 2 | 50 | 38 | 12 | 23:50 | 17.50 | 6.00 |
| | | | 2 | 2 | 0 | 20 | 20 | 0 | 61 | 61 | 0 | 29.50 | 29.50 | 0 |
| | | 1997 | 2 | 1 | 0 | 1 | . 1 | 0 | 2 | 2 | 0 | 0.50 | 0.50 | 0 |
| | WATER | 1992 1997 | 2 | 1 | 0 | 2 | 2 | 0 | 58 | 58 | 0 | 29.00 | 29.00 | 0 |

| | tion types for West Point Technique | Year | Total Plots | Site Plots | FO Plots | Total Spp | Site Spp | FO Spp | Total Birds | Site Birds | FO Birds | Ave Tot Birds | Ave Site Birds | Ave FO Birds |
|----------------|-------------------------------------|--------------|----------------|---------------|-------------|--------------|-------------|-----------|----------------|---------------|-------------|------------------|-------------------|-----------------|
| egetation Type | | | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | 0 |
| BURN BARREN | BARK GLEANER | 1995 | 1 | 1 | 0 | 1 | 1 | 0 | 2 | 2 | 0 | 2.00 | 2.00 | (|
| | | 1996 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | . 1 | 0 | 1.00 | 1.00 | (|
| | TOTAL OF GLENNED | 1997 | 1 | 1 | 0 | 5 | 5 | 0 | 6 | 6 | 0 | 6.00 | 6.00 | (|
| | FOLIAGE GLEANER | 1995 | 1 | 1 | 0 | 4 | 4 | 0 | 4 | 4 | 0 | 4.00 | 4.00 | (|
| | | 1996 | 1 | 1 | 0 | 3 | 3 | 0 | 4 | 4 | 0 | 4.00 | 4.00 | (|
| | TO CAN TO CALLED | 1997 1995 | 1 | 1 | 0 | 7 | 7 | 0 | 10 | 10 | 0 | 10.00 | 10.00 | (|
| | GROUND GLEANER | 1995 | 1 | 1 | 0 | 8 | 8 | 0 | 12 | 12 | 0 | 12.00 | 12.00 | (|
| | | 1997 | 1 | 1 | 0 | 9 | 9 | 0 | 14 | 14 | 0 | 14.00 | 14.00 | |
| | | | 1 | 1 | 0 | 1 | 1 | 0 | 2 | 2 | .0 | 2.00 | 2.00 | |
| | HAWKER | 1995 1996 | 1 | 1 | 0 | 2 | 2 | 0 | 3 | 3 | 0 | 3.00 | 3.00 | |
| | j | 1990 | 1 | i | 0 | 3 | 3 | 0 | 5 | 5 | 0 | 5.00 | 5.00 | |
| | WOLED OF EVALED | | 1 | 1 | 0 | 2 | 2 | 0 | 3 | 3 | 0 | 3.00 | 3.00 | |
| | HOVER GLEANER | 1995 | | 1 | 0 | 2 | 2 | 0 | 3 | 3 | 0 | 3.00 | 3.00 | |
| | | 1996 1997 | 1. | 1 | 0 | 2 | 2 | 0 | 5 | 5 | 0 | 5.00 | 5.00 | |
| | COLUMNICED | 1996 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | |
| W | SCAVENGER | 1990 | 1 | 0 | 1 | 1 | 0 | 1 | 21 | 0 | 21 | 21.00 | 0 | 21.0 |
| WENT OCK | SURFACE DIPS | 1995 | 1 | 1 | 0 | 1 | 1 | 0 | 2 | 2 | 0 | 2.00 | 2.00 | |
| HEMLOCK- | BARK GLEANER | 1996 | | 1 | 0 | 2 | 2 | 0 | 4 | 4 | 0 | 4.00 | 4.00 | |
| HARDWOOD | | 1997 | 1 | 1 | 0 | 2 | 2 | 0 | 3 | 3 | 0 | | 3.00 | |
| SWAMP | FOLIAGE BROWSER | 1995 | 1 | | 0 | 1 | 1 | 0 | | 1 | 0 | 1.00 | 1.00 | |
| | | 1995 | 1 | 1 | 0 | 6 | 6 | 0 | | 8 | | | 7.00 | |
| | FOLIAGE GLEANER | 1995 | 1 | 1 | 0 | 3 | 3 | 0 | 5 | 5 | . 0 | | 5.00 | |
| | | 1997 | 1 | 1 | 0 | 5 | 5 | 0 | | 8 | 0 | | 8.00 | |
| | GROUND GLEANER | 1995 | 1 | | 0 | 9 | 9 | 0 | | 14 | 0 | | 14.00 | |
| | GROUND GLEANER | 1996 | 1 | 1 | 0 | 8 | 8 | 0 | 14 | 14 | 0 | | 13.00 | |
| | | 1997 | 1 | 1 | 0 | 10 | 10 | 0 | | 16 | 0 | | 16.00 | |
| | HAWKER | 1995 | 1 | | 0 | | 1 | 0 | | 1 | 0 | | 1.00 | |
| | IIAWKLK | 1997 | 1 | | 0 | 4 | 4 | 0 | 4 | 4 | 0 | 4.00 | 4.00 | |
| | HOVER GLEANER | 1995 | 1 | | 0 | | 3 | | | 3 | 0 | 3.00 | 3.00 | |
| | HOVER GEENINER | 1996 | 1 | | 0 | 2 | 2 | 0 | | 3 | 0 | 3.00 | 3.00 | |
| | | 1997 | 1 | 1 | 0 | 3 | 3 | | | 6 | 0 | | 6.00 | |
| HEMLOCK- | BARK GLEANER | 1995 | 1 | | 0 | | | | | 2 | | 2.00 | 2.00 | |
| NORTHERN | Dillic Galanta | 1997 | 1 | | 0 | | | 0 | 3 | . 3 | 0 | 3.00 | 3.00 | |
| HARDWOOD | FOLIAGE GLEANER | 1995 | | | | | 3 | 0 | 6 | 6 | 0 | 6.00 | 6.00 | |
| FOREST | . 021. 102 022. 11 121 | 1996 | | | 0 | 7 | 7 | 0 | 8 | 8 | 0 | 8.00 | 8.00 | |
| roidb. | | 1997 | 1 | | 0 | 10 | 10 | 0 | 13 | 13 | 0 | 13.00 | 13.00 | |
| | GROUND GLEANER | 1995 | | | 0 | 6 | 6 | 0 | 8 | 8 | 0 | 8.00 | 8.00 | |
| | | 1996 | | 1 | 0 | 6 | 6 | 0 | 8 | 8 | 0 | 8.00 | 8.00 | |
| | | 1997 | 1 | 1 | 0 | 8 | 8 | 0 | 12 | 12 | 0 | 12.00 | 12.00 | |
| | HAWKER | 1995 | | | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | |
| | | 1996 | | | 0 | 2 | 2 | 0 | 2 | . 2 | 0 | 2.00 | 2.00 | |
| | | 1997 | | | | | 2 | . 0 | | | 0 | 2.00 | 2.00 | |
| | HOVER GLEANER | 1995 | | | | | | | | | | | 7.00 | |
| | | 1996 | | | | | 3 | 0 | | • | C | 4.00 | 4.00 | |
| | | 1997 | | | | | | | | | | 6.00 | 6.00 | |
| | LOW PATROL | 1995 | | | | | | | | | 1 | 1.00 | 0 | 1.0 |
| | SCAVENGER | 1996 | - | | | | | | | | | 1.00 | 1.00 | |

| | Tashnigus | Year | Total Plots | Site Plots | FO Plots | Total Spp | Site Spp | FO Spp | Total Birds | Site Birds | FO Birds | Ave Tot Birds | Ave Site Birds | Ave FO Birds |
|-----------------|-----------------|--------------|----------------|---------------|-------------|--------------|-------------|-----------|----------------|---------------|-------------|------------------|-------------------|-----------------|
| Vegetation Type | Technique | | | 5 | 0 | 7 | 7 | 0 | 13 | 13 | 0 | 2.60 | 2.60 | 0 |
| OAK-HICKORY | BARK GLEANER | 1995 | 5 | 5 | 0 | 5 | 5 | 0 | 9 | 9 | 0 | 1.80 | 1.80 | 0 |
| | | 1996 | 5 | 5 | 0 | 5 | 5 | . 0 | 16 | 16 | 0 | 2.80 | 2.80 | 0 |
| | | 1997 | 5 | 5 | 0 | 11 | 11 | 0 | 27 | 27 | 0 | 5.20 | 5.20 | 0 |
| | FOLIAGE GLEANER | 1995 1996 | 5 | 5 | 0 | 14 | 14 | 0 | 39 | 39 | 0 | 7.60 | 7.60 | 0 |
| | | | 5 | 5 | 0 | 17 | 17 | 0 | 50 | 50 | 0 | 9.60 | 9.60 | 0 |
| | CROWN OF TANER | 1997 1995 | 5 | 5 | 0 | 12 | 12 | 0 | 47 | 47 | 0 | 9.20 | 9.20 | 0 |
| | GROUND GLEANER | 1995 | 5 | 5 | 1 | 14 | 13 | 1 | 47 | 46 | 1 | 9.00 | 8.80 | 0.20 |
| | | 1997 | 5 | 5 | 0 | 12 | 12 | 0 | 55 | - 55 | 0 | 10.80 | 10.80 | 0 |
| | MANUTED. | 1995 | 5 | 5 | 0 | 4 | 4 | 0 | 21 | 21 | 0 | 4.00 | 4.00 | 0 |
| | HAWKER | 1996 | 5 | 5 | 0 | 2 | 2 | 0 | 11 | 11 | 0 | 2.20 | 2.20 | 0 |
| | | 1997 | 5 | 5 | 0 | 3 | 3 | 0 | 18 | 18 | 0 | 3.60 | 3.60 | 0 |
| | | | 5 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 0.20 | 0.20 | 0 |
| | HIGH PATROL | 1995 | | _ | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 0.20 | 0 | 0.20 |
| | | 1996 | 5 | 0 | 0 | 3 | 3 | 0 | 19 | 19 | 0 | 3.60 | 3.60 | 0 |
| | HOVER GLEANER | 1995 | 5 | 5 | | _ | 3 | 0 | 30 | 30 | 0 | 5.40 | 5.40 | 0 |
| | | 1996 | 5 | 5 | 0 | 3 | | | 29 | 29 | 0 | 5.80 | 5.80 | 0 |
| | | 1997 | 5 | 5 | 0 | 3 | 3 | 0 | 1 | 1 | 0 | 0.20 | 0.20 | 0 |
| | LOW PATROL | 1995 | 5 | 1 | 0 | 1 | 1 | 0 | 3 | 3 | 0 | 0.60 | 0.60 | 0 |
| | SCAVENGER | 1995 | 5 | 2 | 0 | 2 | 2 | | . 4 | 4 | 0 | 0.80 | 0.80 | 0 |
| | | 1996 | 5 | 1 | 0 | 1 | 1 | 0 | 2 | 2 | 0 | 0.40 | 0.40 | 0 |
| | | 1997 | 5 | 2 | 0 | 1 | 1 | 0 | 6 | 6 | 0 | 1.20 | 1.20 | 0 |
| | SURFACE DIPS | 1997 | 5 | 1 | 0 | 1 | 1 | 0 | . 2 | 2 | 0 | 1.00 | 1.00 | 0 |
| SUCCESSIONAL | AERIAL FORAGING | 1997 | 2 | 1 | 0 | 1 | 3 | 0 | 3 | 3 | 0 | 1.50 | 1.50 | 0 |
| OLD FIELD | BARK GLEANER | 1992 | 2 | 1 | 0 | 3 | . 4 | 0 | 5 | 5 | 0 | 2.00 | 2.00 | 0 |
| | | 1995 | 2 | 1 | 0 | 2 | 2 | 0 | 2 | 2 | 0 | 1.00 | 1.00 | 0 |
| | | 1996 | 2 | 1 | 0 | 4 | 4 | 0 | 4 | 4 | 0 | 2.00 | 2.00 | 0 |
| | | 1997 | 2 | 2 | 0 | 1 | 1 | 0 | 2 | 2 | 0 | 0.50 | 0.50 | 0 |
| | DABBLER | 1992 | 2 | 1 | | | 1 | 0 | 1 | 1 | 0 | 0.50 | 0.50 | 0 |
| | | 1997 | 2 | 1 | 0 | 6 | 6 | 0 | 15 | 15 | 0 | 7.00 | 7.00 | . 0 |
| | FOLIAGE GLEANER | 1992 | 2 | 2 | 0 | | 11 | 0 | . 30 | 30 | 0 | 15.00 | 15.00 | 0 |
| | | 1995 | 2 | 2 | 0 | 11 | | 1 | 17 | 15 | 2 | 8.00 | 7.00 | 1.00 |
| | | 1996 | 2 | 2 | 1 | 10 | 9 | | 43 | 43 | 0 | 21.50 | 21.50 | 0 |
| | | 1997 | 2 | 2 | - 0 | 13 | 13 | 0 | 47 | 46 | 1 | 23.00 | 22.50 | 0.50 |
| | GROUND GLEANER | 1992 | 2 | 2 | 1 | 12 | 12 | 1 | 31 | 31 | 0 | 15.00 | 15.00 | 0.50 |
| | | 1995 | 2 | 2 | | 15 | 15 | 0 | 49 | 37 | 12 | 23.00 | 17.00 | 6.00 |
| | | 1996 | 2 | 2 | 1 | 16 | 15 | 2 | 56 | 56 | 0 | 27.50 | 27.50 | 0.00 |
| | | 1997 | 2 | 2 | 0 | 18 | 18 | 0 | 2 | 2 | 0 | 1.00 | 1.00 | 0 |
| | HAWKER | 1992 | 2 | 1 | 0 | 2 | 3 | 0 | 6 | 6 | 0 | 3.00 | 3.00 | 0 |
| | | 1995 | 2 | 2 | 0 | 1 | 1 | 0 | 2 | 2 | 0 | 1.00 | 1.00 | 0 |
| | | 1996 | 2 | 1 | 0 | | 3 | 0 | 4 | 4 | 0 | 2.00 | 2.00 | 0 |
| | | 1997 | 2 | 2 | 0 | 3 | 3 | 0 | 7 | 7 | 0 | 3.50 | 3.50 | 0 |
| | HOVER GLEANER | 1992 | 2 | 1 | 0 | | | | 3 | 3 | 0 | 1.50 | 1.50 | 0 |
| | | 1995 | 2 | 2 | 0 | 2 | 2 | 0 | | | 0 | 2.50 | 2.50 | 0 |
| | | 1996 | 2 | 1 | 0 | 3 | 3 | 0 | . 5 | 5 | 0 | 4.50 | 4.50 | 0 |
| | | 1997 | 2 | 1 | 0 | 3 | 3 | 0 | 2 | ·2 | 0 | 1.00 | 1.00 | 0 |
| | LOW PATROL | 1992 | 2 | 1 | 0 | 1 | 1 | 0 | | 19 | 0 | 9.50 | 9.50 | 0 |
| | SCAVENGER | 1992 | 2 | 1 | 0 | 2 | 2 | 0 | 19 | 3 | 0 | 1.50 | 1.50 | 0 |
| | | 1995 | 2 | 1 | 0 | 2 | 2 | 0 | 3 | | 0 | 0.50 | 0.50 | 0 |
| | | 1996 | 2 | 1 | 0 | 1 | 1 | 0 | 1 | . 1 | | | | |
| | | 1997 | 2 | 1 | 0 | 1 | 1 | 0 | 3 | 3 | 0 | 1.50 | 1.50 | 0 |

| Vegetation Type | Technique | Year | Total Plots | Site Plots | FO Plots | Total Spp | Site Spp | FO Spp | Total Birds | Site Birds | FO Birds | Ave Tot Birds | Ave Site Birds | Ave FO Birds |
|-----------------|--------------|------|----------------|---------------|-------------|--------------|-------------|-----------|----------------|---------------|-------------|------------------|-------------------|-----------------|
| vegetation Type | | 1005 | 2 | 1 | 0 | 1 | 1 | 0 | 57 | 57 | 0 | 28.50 | 28.50 | 0 |
| | SURFACE DIPS | 1997 | | | U | | <u> </u> | | | | ^ | 0.50 | 0.50 | 0 |
| | SWOOPER | 1997 | 2 | 1 | 0 | 1 | 1 | 0 | 2 | | U | 0.50 | 0.50 | |

| rabie n/. vegeta | tion types for West | onie sp | Total | Site | FO | Total | Site | FO | Total | Site | FO | Ave Tot | Ave Site | Ave FO |
|------------------|---------------------|---------|-------|-------|-------|-------|------|-----|-------|-------|-------|---------|----------|--------|
| Vegetation Type | Habitat | Year | Plots | Plots | Plots | Spp | Spp | Spp | Birds | Birds | Birds | Birds | Birds | Birds |
| BURN BARREN | | 1995 | 1 | 1 | 0 | 9 | 9 | 0 | .12 | 12 | 0 | 12.00 | 12.00 | 0 |
| | | 1996 | 1 | 1 | 0 | 9 | 9 | 0 | 12 | 12 | 0 | 12.00 | 12.00 | 0 |
| | | 1997 | 1 | 1 | 0 | 10 | 10 | 0 | 15 | 15 | 0 | 15.00 | 15.00 | 0 |
| | FOREST EDGE | 1995 | 1 | 1 | 0 | 3 | 3 | 0 | 5 | 5 | 0 | 5.00 | 5.00 | 0 |
| | | 1996 | 1 | 1 | 0 | 5 | 5 | 0 | 8 | 8 | 0 | 8.00 | 8.00 | 0 |
| | | 1997 | 1 | 1 | 0 | 6 | 6 | 0 | 11 | 11 | 0 | · 11.00 | 11.00 | 0 |
| | RIPARIAN | 1995 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | 0 |
| | | 1996 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | 0 |
| | SHRUBLAND | 1995 | . 1 | 1 | 0 | 3 | 3 | 0 | 4 | 4 | 0 | 4.00 | 4.00 | 0 |
| | | 1996 | 1 | 1 | 0 | 3 | 3 | 0 | 4 | . 4 | 0 | 4.00 | 4.00 | . 0 |
| | | 1997 | 1 | 1 | 0 | 2 | 2 | 0 | 3 | 3 | 0 | 3.00 | 3.00 | 0 |
| | SWAMP/MARSH | 1997 | 1 | 0 | 1 | 1 | 0 | 1 | 21 | 0 | 21 | 21.00 | 0 | 21.00 |
| HEMLOCK- | FOREST | 1995 | 1 | 1 | 0 | 15 | 15 | 0 | 21 | 21 | 0 | 20.00 | 20.00 | 0 |
| HARDWOOD | | 1996 | 1 | 1 | 0 | 10 | 10 | 0 | 16 | 16 | 0 | 16.00 | 16.00 | 0 |
| SWAMP | | 1997 | 1 | 1 | 0 | 15 | 15 | 0 | 22 | 22 | 0 | 22.00 | 22.00 | 0 |
| | FOREST EDGE | 1995 | 1 | 1 | 0 | 2 | 2 | 0 | 4 | 4 | 0 | 4.00 | 4.00 | 0 |
| | | 1996 | 1 | 1 | 0 | 3 | 3 | 0 | 6 | 6 | 0 | 5.00 | 5.00 | 0 |
| | | 1997 | 1 | 1 | 0 | 4 | 4 | 0 | 7 | 7 | 0 | 7.00 | 7.00 | 0 |
| | GRASSLAND | 1997 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | 0 |
| | RIPARIAN | 1995 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | 0 |
| | | 1996 | 1 | 1 | 0 | 1 | 1 | 0 | 2 | 2 | 0 | 2.00 | 2.00 | 0 |
| | | 1997 | 1 | 1 | 0 | 2 | 2 | 0 | 2 | 2 | 0 | 2.00 | 2.00 | 0 |
| | SHRUBLAND | 1995 | 1 | 1 | 0 | 3 | 3 | 0 | 3 | 3 | 0 | 3.00 | 3.00 | 0 |
| | | 1996 | 1 | 1 | 0 | 1 | 1 | 0 | 2 | 2 | 0 | 2.00 | 2.00 | 0 |
| | | 1997 | 1 | 1 | 0 | . 2 | 2 | 0 | 5 | 5 | 0 | 5.00 | 5.00 | 0 |
| HEMLOCK- | FOREST | 1995 | 1 | 1 | .1 | 11 | 10 | 1 | 21 | 20 | 1 | 21.00 | 20.00 | 1.00 |
| NORTHERN | | 1996 | 1 | 1 | 0 | 13 | 13 | 0 | 17 | 17 | 0 | 16.00 | 16.00 | 0 |
| HARDWOOD | | 1997 | 1 | 1 | 0 | 17 | 17 | 0 | 23 | 23 | 0 | 23.00 | 23.00 | 0 |
| FOREST | FOREST EDGE | 1995 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | 0 |
| | | 1996 | 1 | 1 | 0 | 2 | 2 | 0 | 2 | 2 | 0 | 2.00 | 2.00 | 0 |
| | | 1997 | 1 | 1 | 0 | -4 | 4 | 0 | 5 | 5 | 0 | 5.00 | 5.00 | 0 |
| | GRASSLAND | 1996 | 1 | 1 | 0 | 2 | 2 | 0 | 3 | 3 | 0 | 3.00 | 3.00 | 0 |
| | RIPARIAN | 1995 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1.00 | 1.00 | 0 |
| | | 1996 | 1 | 1 | 0 | 2 | 2 | 0 | 2 | 2 | 0 | 2.00 | 2.00 | 0 |
| | | 1997 | 1 | 1 | 0 | 2 | 2 | 0 | 2 | 2 | 0 | 2.00 | 2.00 | 0 |
| | SHRUBLAND | 1995 | 1 | 1 | 0 | 2 | 2 | 0 | . 2 | 2 | 0 | 2.00 | 2.00 | 0 |
| | | 1997 | 1 | 1 | 0 | 2 | 2 | 0 | 3 | 3 | 0 | 3.00 | 3.00 | 0 |
| | SWAMP/MARSH | 1997 | 1 | 1 | 0 | 1 | 1 | 0 | 3 | 3 | 0 | 3.00 | 3.00 | 0 |
| OAK-HICKORY | FOREST | 1995 | 5 | 5 | 0 | 31 | 31 | 0 | 96 | 96 | 0 | 18.40 | 18.40 | 0 |
| | | 1996 | 5 | 5 | 1 | 28 | 27 | 1 | 113 | 112 | 1 | 21.40 | 21.20 | 0.20 |
| | | | | | | | | - | | | • | 00 40 | 00.40 | |

FOREST EDGE

GRASSLAND

6.

' 1

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5.00

4.00

7.60

1.20

0.20

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23.40

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| | | Veer | Total Plots | Site Plots | FO Plots | Total Spp | Site Spp | FO Spp | Total Birds | Site Birds | FO Birds | Ave Tot Birds | Ave Site Birds | Ave FO Birds |
|-----------------|--|--------------|----------------|---------------|-------------|--------------|-------------|-----------|----------------|---------------|-------------|------------------|-------------------|-----------------|
| Vegetation Type | Habitat | Year | | | 0 | 1 | 1 | 0 | 3 | 3 | 0 | 0.60 | 0.60 | 0 |
| | RIPARIAN | 1995 | 5 | 2 | 0 | 2 | 2 | 0 | 2 | 2 | 0 | 0.40 | 0.40 | 0 |
| | | 1996 | 5 | 2 | 0 | 2 | 2 | 0 | 3 | 3 | 0 | 0.60 | 0.60 | 0 |
| | | 1997 | 5 | 2 | 0 | 2 | 2 | 0 | 2 | 2 | 0 | 0.40 | 0.40 | 0 |
| | SHRUBLAND | 1995 | 5 | 1 | | 3 | 3 | 0 | 4 | 4 | 0 | 0.80 | 0.80 | 0 |
| | | 1996 | 5 | 2 | 0 | 4 | 4 | 0 | 6 | 6 | 0 | 1.20 | 1.20 | 0 |
| | | 1997 | 5 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 0.20 | 0 | 0.20 |
| | SWAMP/MARSH | 1996 | 5 | 1 | 0 | 1 | 1 | 0 | 6 | 6 | 0 | 1.20 | 1.20 | 0 |
| | | 1997 | 5 2 | 2 | 0 | 18 | 18 | | 55 | 55 | 0 | 26.50 | 26.50 | 0 |
| SUCCESSIONAL | FOREST | 1992 | 2 | 2 | 0 | 20 | 20 | | 36 | 36 | 0 | 17.00 | 17.00 | 0 |
| OLD FIELD | | 1995 | 2 | 2 | 1 | 18 | 17 | | 35 | 33 | 2 | 17.00 | 16.00 | 1.00 |
| | | 1996 | 2 | 2 | 0 | 22 | 22 | | | 51 | 0 | 25.00 | 25.00 | 0 |
| | ====================================== | 1997 1992 | 2 | 2 | 0 | | | | | 8 | 0 | 4.00 | 4.00 | 0 |
| | FOREST EDGE | 1992 | 2 | . 2 | 0 | | | | 15 | 15 | 0 | 7.50 | 7.50 | 0 |
| | | 1993 | 2 | 2 | 1 | 4 | | | 13 | 8 | 5 | 6.00 | 3.50 | 2.50 |
| | | 1990 | 2 | 2 | | | | | 18 | 18 | (| 9.00 | 9.00 | 0 |
| | TO EGIPLATED | 1997 | 2 | 1 | 0 | | | | 2 | 2 | (| 0.50 | 0.50 | 0 |
| | FRESHWATER | 1992 | 2 | _ | | | | 2 0 | 3 | 3 | (| 1.50 | 1.50 | 0 |
| | GRASSLAND | 1992 | 2 | | | | | | 1 | 1 | (| 0.50 | 0.50 | 0 |
| | GRASSLAND | 1995 | 2 | | | | 1 | 0 | 3 | 3 | (| 1.50 | 1.50 | 0 |
| | | 1996 | 2 | | _ | | . 1 | 1 1 | 9 | 2 | • | 7 4.00 | 0.50 | 3.50 |
| | | 1997 | 2 | _ | | 3 | 3 | 3 0 | 11 | 11 | (| 5.50 | 5.50 |) 0 |
| | RIPARIAN | 1992 | | | | | | 2 1 | 9 | 8 | | 1 4.50 | 4.00 | 0.50 |
| | KIFAKIAN | 1995 | _ | - | | 3 | 3 | 3 (|) 6 | 6 | | 0 3.00 | 3.00 |) 0 |
| | | 1996 | _ | | | | 2 2 | 2 (|) 8 | 8 - 8 | (| 0 4.00 | 4.00 |) 0 |
| | | 1997 | 2 | | |) 4 | | 4 (|) 14 | 14 | | 0 7.00 | 7.00 |) 0 |
| | SHORELINE | 1992 | | | 0 |) 1 | | 1 (|) 2 | 2 2 | | 0 1.00 | 1.00 |) 0 |
| | BITORELLA | 1995 | | | C |) 1 | 1 0 | 1 (|) 1 | 1 | | 0 0.50 | 0.50 | 0 |
| | | 1997 | | . 1 | |) 1 | 1 | 1 (|) 1 | 1 1 | | 0 0.50 | 0.50 | 0 0 |
| | SHRUBLAND | 1992 | | | . (|) 2 | 2 : | 2 (|) 4 | 1 4 | | 0 2.00 | 2.00 | 0 0 |
| | SINOBLIND | 1995 | _ | | (|) : | 5 : | 5 (|) 11 | 1 11 | | 0 5.50 | 5.50 | 0 0 |
| | | 1996 | | | |) (| 5 | 6 (|) { | 3 8 | | 0 4.00 | 4.00 | 0 0 |
| | | 1997 | | | |) (| 5 | 6 (| 2 | 21 | | 0 10.50 | 10.50 | |
| | SWAMP/MARSH | 1992 | | | |) : | 1 | 1 (|) 10 | 5 16 | | 0 8.00 | 8.0 | 0 0 |
| | | 1995 | | | 1 (|) | 1 | 1 (| 0 (| 5 6 | | 0 3.00 | 3.0 | |
| | | 1996 | | | . (|) | 1 | 1 | 0 3 | 3 3 | . 1 | 0 1.00 | 1.0 | |
| | | 1997 | | | . (|) : | 2 | 2 | 0 6: | 2 62 | ! | 0 30.50 | 30.5 | 0 (|

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